

University of Ljubljana
Astronomical and Geophysical Observatory

28 APR 1969

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

I—III 1968

Ljubljana 1969

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.B. 01-20, Yugoslavia

1968

P R E L I M I N A R Y S E I S M O L O G I C A L

B U L L E T I N

(January - March 1968)

University of Ljubljana
 Astronomical and Geophysical
 Observatory,
 Ljubljana, Trg revolucije 11,
 P.O.B. 01-20, Yugoslavia

1968

PRELIMINARY SEISMOLOGICAL BULLETIN
 from January 1, to March 31, 1968

Station: Ljubljana (LJU) - Coordinates: $46^{\circ} 02.6' N$ Lat.
 $14^{\circ} 32.0' E$ Long.
 Geocentric direction cosines: $a = +6743$, $b = +1748$, $c = +7175$
 $d = -8$, $h = -4$
 Height above mean sea level: 396 m;
 Lithologic fundation: sandstone (carbon);

Instruments:

Wiechert; horizontal astatic seismograph, $M = 200$ kg, mechanical
 registration, 16-18 mm/min.

Constants (31.1.1966):

Component	T_0	v_1	r/T_0^2	V
N-S	5.0	2.20	0.0043	69
E-W	4.9	2.37	0.0058	67

Hiller-Stuttgart, vertical component Z with galvanometrical re-
 cording; $T_0 = 1.5$ sec, $T_g = 1.5$ sec; $D_1 = D_2 = 1$, $V_{max} = 10150x$,
 registration velocity: 60 mm/min.

Note: Periods of seismic waves are given in seconds, the
 amplitudes in microns; sign + means compression or movement of
 ground towards north or east, sign - means dilatation or movement
 towards south or west. All times are given in GMT. Time signals
 are received one or two times daily and are registered on a chro-
 nograph. Wherever possible time readings up to one tenth of a
 second are given. Macroseismic data refer to Mercalli-Cancani-
 Sieberg scale (MCS), macroseismic rays are given in kilometers.
 Abbreviation DECM means: Determination was made by electronic
 computer.

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- 2 eZ 00 40 03, iZ PKIKP 00 40 07.8, eZ PP 00 42 04, $D = 14000$
 km. USCGS: $H = 00 21 10.8$, $5.1S$, $153.4E$, $h = 55$ km. New Ire-
 land region. $M = 5.7 - 6.0$ (BRK), $5 1/2 - 5 3/4$ (GOL), $5.5 SD$
 1.0 (CGS).
- 2 iZ Pg 08 25 48.3, iZ Sg 08 26 07.7, $D = 160$ km.
- 3 eZ 12 39 (39), iZ 12 39 43.7.
- 3 eZ 13 36 32, Z 13 37 (00), weak.

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- 4 eZ P 01 10 08, eZ PP 01 13 13, eZ PPP 01 15 06, D= 8900km. USCGS: H= 00 57 44.4, 52.2N, 171.3W, h= 36 km. Fox Islands, Aleutian Islands. M= 6- 6 1/4 (PAS), 5.6- 5.9 (BRK), 6- 6 1/4 (PAL), 5.7 SD 1.0 (CGS).
- 4 eZ Pn 10 24 35, eZ Sn 10 25 20, D=420 km. BCIS: H= 10 23 34 (DECM), 42.4N, 12.8E, Italy central. Felt on the region of Rieti. M=3.7 (Roma).
- 4 eZ PKP 10 46 41, USCGS: H= 10 27 37.7, 9.9S, 148.9E, h= 19 km. East New Guinea region. M=5.4 SD 1.2 (CGS).
- 4 eZ Pn 20 12 52, eZ 20 13 34, eZ Sn 20 14 07, D=700 km.
- 55 eZ 06 08 37, eZ Sn 06 09 21, D= 420 km. BCIS: H= 06 07 39 (DECM), 42.4N, 12.8E, Italy central. Felt on the region of Rieti. M=3.7 (Roma).
- 55 eZ 10 13 11, eZ 10 14 34, traces.
- 55 eZ Pn 12 34 58, eZ 12 35 08, eZ (Sn) 12 36 13, D= 700 km.
- 6 iZ + P 10 25 50.8, BCIS: H= 10 23 50, h= 185 ± 10 km. 45.8 N, 26.6E, Rumania, Vrancea region. M=4.2 (Bucarest). USCGS: H=10 23 49.1, 45.8N, 26.6E, h= 163 km. Rumania, M= 4.6 SD 1.1 (CGS).
- 6 eZ 23 45 52 PP, USCGS: H=23 27 21.2, 27.8S, 71.1W, h= 33 km. Near coast of northern Chile. M=6 1/4- 6 1/2 (PAS), 6.0- 6.4 (BRK), 5.8 SD 1.3 (CGS).
- 7 eZ Pn 00 16 (40), iZ 00 16 13.0, traces.
- 7 eZ 10 16 21, eZ 10 17 18, obscured by microseisms. USCGS: H= 09 56 40.3, 5.1S, 153.9E, h= 118 km. New Ireland region. Felt at Rabaul. M= 5.6 SD 1.0 (CGS).
- 8 eZ PKIKP 22 14 05, eZ PKP2 22 14 10, D= 16400 km. USCGS: H= 21 54 20.8, 14.8S, 174.8W, h= 16 km. Samoa Islands region. M= 6.2- 6.4 (BRK), 6- 6 1/4 (GOL), 5.5 SD 1.2 (CGS).
- 88 eiZ P 20 32 13, USCGS: H= 20 22 15.6, 8.2N, 38.2W, h= 33 km. Central Mid-Atlantic ridge. M= 4.8-5.2 (BRK), 5 3/4 (GOL), 5.4 SD 1.3 (CGS).
- 9 eZ PKP 09 45 48, weak. USCGS: H= 09 26 13.8, 14.8S, 174.8W, h= 75 km. Samoa Islands region. M= 4.0- 4.4 (BRK), 4.7 SD 0.8 (CGS).
- 9 eZ Pn 23 16 33, eZ Sn 23 18 34, D= 1360 km. BCIS: H= 23 15 39 (DECM), 35.4N, 22.5E, west of Crete. ML= 4.1 (Athens). USCGS: H= 23 15 42.2, 35.5N, 22.5E, h= 44 km. Mediterranean Sea. M= 4.7 SD 1.2 (CGS).
- 11 iZ Pn 17 08 47.5, iZ Sn 17 09 17.7, D= 290 km. BCIS: H=

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- (cont.) 17 08 09, (DECM), 44.4N, 12.0E, Romagna (Italy).
- 12 eZ P+ 04 29 08, USCGS: H= 04 17 43.1, 13.4N, 93.1E, h= 33 km. Andaman Islands region. M= 5.5 SD 1.0 (CGS).
- 12 iZ Sg 09 52 10.5, traces.
- 12 Z Pn 15 07 (00), iZ Sn 15 08 21.4, D=770km.
- 13 eZ+ P 07 16 12, USCGS: H=07 03 39.2, 24.1N, 122.2E, h=8 km. Taiwan region. Felt at Taipei. M= 6- 6 1/4 (GOL), 5.7 SD 1.0 (CGS).
- 14 eZ 08 22 18, eZ (Sn) 08 22 32.
- 14 eZ P or PKP 11 26 02.
- 14 eZ Pn 12 30 26, BCIS: H= 12 28 23 (DECM), 37.9N, 13.0E, Sicily, premonitory shock. M= 4.6 (Pruhonic). USCGS: H= 12 28 24, 37.8N, 13.1E, h= 33 km. Sicily. Felt. M= 5.1 SD 1.7 (CGS)&
- 14 eZ PP 12 42 32, USCGS: H= 12 25 09.7, 7.5S, 127.9E, h= 111 km. Banda Sea. Felt at Darwin. M= 6 1/4 (PAS), 6 (PAL), 5.9 SD 1.2 (CGS).
- 14 eZ Pn 13 17 47, BCIS: H= 13 15 46, (DECM), 37.7N, 13.1E, Sicily. Premonitory shock. USCGS: H= 13 15 41, 37.7N, 13.1E, h= 2 km. Sicily. Felt. M= 5.0 SD 1.2 (CGS).
- 14 eZ Pn 15 50 32, eZ Sn 15 52 07, D= 900 km. BCIS: H= 15 48 31 (DECM), 37.7N, 13.2E, Sicily. Premonitory shock. M= 5.0 (Uppsala), MLH= 4.9 (Strasbourg), 4.8 (Pruhonic). USCGS: H= 15 48 31.8, 37.9N, 13.1E, h= 29 km. Sicily. Felt. M= 4.7 SD 1.2 (CGS).
- 15 eZ Pn 01 35 (00), iZ 01 36 27.4, eZ Sn 01 36 48, D= 900km. BCIS: H= 01 32 57, Sicily, MLH= 5.4 (Strasbourg), 5 1/2 (Uppsala), premonitory shock.
- 15 iZ! Pn 02 03 09.1, iZ !! Sn 02 04 50.0, D= 900 km. BCIS: H=02 01 06 (DECM), 37.7N, 13.1E, (macroseismic epicenter), western Sicily. Destroyer seism of Gibellina, Santa Ninfa, Salaparuta (Trapani), Montevago, S. Margherita (Agrigento). Numerous victims and considerable damage. MLH= 5.9 (Strasbourg), M= 6.1 (Uppsala), 6 1/4 (Lisboa), 6.0 (Pasadena, Praha), 5.9 (Moxa), 5.9 (Pruhonic), 5.3 (Athens), 5.1 (Quetta). USCGS: H= 02 01 08.5, 37.9N, 13.1E, h= 33 km. Sicily. 146 killed, 1500 injured and 10000 homeless, Montevago and Gibellina destroyed and ten towns badly damaged. M=6 (PAS), 6 (GOL), 5.4 SD 1.2 (CGS).
- 15 eZ Pn 03 20 40, eZ Sn 03 22 22, D=940 km. BCIS: H= 03 18 40 (DECM), 37.8N, 13.2E, Sicily. M=5.0 (Uppsala). USCGS: H= 03 18 40.7, 37.9N, 13.1E, h= 33 km. Sicily. Felt. M= 4.6

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- (cont.) SD 1.2 (CGS).
- 15 eZ Pn 10 27 14, BCIS: H=10 25.2, Sicily, aftershock.
- 15 eZ P or PKP 10 57 08.
- 15 eZ Pn 13 45 05, eZ Sn 13 46 40, D= 900 km. BCIS: H= 13 41.9, Sicily, aftershock. USCGS: H= 13 42 05, 37.8N, 12.8E, h= 33 km. Sicily. M= 5.3 SD 0.8 (CGS).
- 15 eZ Pn 15 01 40, BCIS: H= 14 59 50, Sicily, aftershock.
- 15 eZ P or PKP 16 51 17.
- 15 eZ Pn 17 32 26, BCIS: H= 17 31.9, Sicily, aftershock.
- 15 eZ Pn 18 24 56, BCIS: H= 18 22 53, Sicily, aftershock. USCGS: H= 18 22 50.1, 37.7N, 13.1E, h= 6km. Sicily. M= 4.1 SD 1.2 (CGS).
- 15 eZ P or PKP 19 47 26.
- 15 eZ Pn 22 21 59, BCIS: H= 22 19 56, Sicily, aftershock. USCGS: H= 22 19 57, 37.8N, 12.9E, h= 33 km. Sicily, M= 4.7 SD 0.7 (CGS).
- 15 eZ Pn 00 56 09, BCIS: H= 00 54 07, Sicily, aftershock. USCGS: H= 00 54 09, 37.6N, 12.8E, h= 33 km. Sicily, M= 4.8 SD 1.4 (CGS).
- 16 eZ Pn 04 11 19.
- 16 eZ 05 14 16, traces.
- 16 eZ Pn 13 12 34, BCIS: H= 13 10.5, Sicily, aftershock. USCGS: H= 13 10 32, 37.8N, 12.8E, h= 33 km. Sicily, M=4.6 SD 1.3 (CGS).
- 16 eZ Pn 13 49 53, iZ (Sn) 13 50 22.0, D= 440 km. USCGS: H= 13 48 18, 44.0N, 18 1/4E, Yugoslavia. Bajina Bašta.
- 16 eZ Pn 14 31 27, traces.
- 16 iZ- Pn 16 44 47.3, iZ! 16 44 50.8, eZ 16 45 35, eZ (Sn) 16 46 36, D= 900 km. BCIS: H= 16 12 45, 37.7N, 13.3E, Sicily. Aftershock. M=5.8 (Uppsala), 5.7 (Collm), 5.6 (Moxa), 5.6 (Praha, Pruhonice, Strasbourg), 5.2 (Athens). USCGS: H= 16 42 44.3, 37.9N, 13.1E, h= 14 km. Sicily. Felt. M= 5.1 SD 1.3 (CGS).
- 17 eZ P or PKP 12 08 58.
- 18 eZ PKP 12 23 14, obscured by Microseisms. USCGS: H= 12 03 37.4, 14.6S, 178.4W, h= 33 km. Fiji Islands region. M=5.1 SD 1.0 (CGS).

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- 19 eZ+ PKIKP 06 23 50, eZ 06 24 36, eZ 06 24 49, eZ PP 06 26 12, D= 14500 km. USCGS: H= 06 04 38.2, 9.4S, 158.4E, h=33 km. Solomon Islands. Felt at Honiara. M=6 3/4 (PAS), 6 1/2 - 6 3/4 (GOL), 6 3/4 (PAL), 6.0 SD 1.6 (CGS).
- 19 eZ+ P 18 27 30, Nevada. M= 7.1 (Uppsala), underground nuclear test.
- 20 eZ PKP 17 01 (09), obscured by microseisms. USCGS: H= 16 41 27.1, 16.2S, 178.1E, h= 21 km. Fiji Islands region. M= 6- 6.2 (BRK), M=5.6 SD 1.1 (CGS).
- 20 eZ - PKIKP 21 40 50, eZ PKP2 21 41 33, D= 17900 km. USCGS: H= 21 21 31.6, 29.9S, 179.5W, h= 349 km. Kermadec Islands. M= 6.3- 6.5 (BRK), 5.8 SD 1.0 (CGS).
- 21 eZ Pn 02 41 06, USCGS: H= 02 39 05, 38.0N, 13.2E, h= 33 km. Sicily. M= 4.3 SD 0.7 (CGS).
- 21 eIZ P 16 51 44.3, eZ PP 16 54 11, D= 6000 km. USCGS: H=16 42 29.2, 1.2S, 14.0W, h= 33 km. North of Ascension Island. M=6.2 (PAS), 6.5- 6.9 (BRK), 6 1/4 (PAL).
- 21 eIZ+ PKP 23 14 14, USCGS: H= 22 55 35.8, 5.0S, 150.8E, h= 185 km. New Britain region. M= 5.0 SD 1.0 (CGS).
- 22 eZ Pg 03 42 53, eZ Sg 03 43 07, D= 110 km. Felt at Labin, Istra, Yugoslavia. ✓
- 22 eZ P 07 23 25, BCIS: H= 07 19 06 (DECM), 34.9N, 5.6W, Maroc. Felt IV (MCS) at Onezzane and II at Rabat. USCGS: H= 07 19 09.3, 34.9N, 5.2W, h= 22 km. Morocco. Felt at Rabat M= 4.1 SD 1.2 (CGS).
- 22 eZ P 10 43 43, USCGS: H= 10 35 36.6, 38.2N, 75.6E, h= 108 km. Southern Sinkiang Prov. China. M= 5.3 SD 0.8 (CGS).
- 22 eZ 16 34 55, eZ (Sn) 16 35 38, weak.
- 22 eZ P 20 39 56, BCIS: H= 20 34 07 (DECM), 33.7N, 46.7E, Luristan (Western Iran). USCGS: H= 20 34 10.0, 33.8N, 46.9E, h= 33 km. Iran-Iraq border region. M= 5.0 SD 0.9 (CGS).
- 24 eZ P 01 09 19, USCGS: H= 00 59 21.9, 8.1N, 38.1W, h= 33 km. Central Mid -Atlantic ridge. M= 5.1 SD 0.9 (CGS).
- 24 eZ Pn 10 00 (39), eZ Sn 10 01 48, (D= 670 km), weak.
- 24 eZ P or PKP 20 56 30, obscured by microseisms.
- 25 eIZ Pn 09 58 50.5, iZ Sn 10 00 25.1, D= 910 km. BCIS: H= 09 56 47 (DECM), 37.7E, 13.1E, Sicily, new damage and victims in devastated region by the seism of January 15, 1968. M= 5.8 (Uppsala), 5.7(Collm, Roma), 5.5 (Strasbourg), 5.4 (Strasbourg, Praha, Pruhonice), 5.2 (Athens). USCGS: H= 09

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- (cont.) 56 48.7, 37.8N, 13.2E, h= 33 km. Sicily. 8 killed, 55 injured, property damage throughout the Island. M= 5 1/2 - 5 3/4 (GOL), 5.1 SD 1.3 (CGS).
- 25 eZ Pn 14 37 35, BCIS: H= 14 35 34 (DECM), MLH= 4.7 (Collm, Roma), 4.5 (Strasbourg), 4.4 (Praha, Pruhonice). USCGS: H= 14 35 33, 37.8N, 12.9E, h= 33 km. Sicily. M= 4.4 SD 1.4 (CGS).
- 26 eZ P 05 00 (07), eZ PP 05 04 08, D= 11900 km. USCGS: H= 04 45 41.4, 8.8S, 120.4E, h= 29 km. Flores Island region. M= 6 1/2 (PAS), 6.5-6.9(BRK), 6 1/2- 6 3/4 (GOL), 6 3/4 - 7 (PAL), 5.9 SD 1.2 (CGS).
- 26 eZ Pn 08 04 21, USCGS: H= 08 02 18, 37.7N, 12.8E, h= 31 km. Sicily. M= 4.6 SD 0.9 (CGS).
- 27 eZ P 14 08 53, USCGS: H= 13 56 23.8, 23.2N, 121.6E, h= 53 km. Taiwan. M= 5.2 SD 1.2 (CGS).
- 28 iZ Pg 15 53 08.1, iZ Sg 15 53 10.1, D= 15 km. Weak.
- 28 eZ (Sg) 21 35 15.
- 28 eZ P 22 23 34.
- 29 eZ P 05 07 43, eZ pP 05 08 31, eZ S 05 14 27, D= 4800 km. USCGS: H= 05 00 10.0, 36.3N, 70.4E, h= 225 km. Hindu Kush region. Felt at Peshavar, Rawalpindi and Lahore. M= 5.5 SD 0.7 (CGS).
- 29 eZ 08 48 38, eZ Sn 08 48 54, weak.
- 29 iZ+ P 10 31 18.5, eZ S 10 40 (38), D= 9000 km. USCGS: H= 10 19 05.6, 43.6N, 146.7E, h= 40 km. Kurile Islands. M= 7.0 (PAS), 7.7-7.9 (BRK), 7- 7 1/4 (PAL), 7.0 (GOL).
- 29 eZ P 16 55 05, USCGS: H= 16 42 50.4, 43.5N, 147.2E, h= 36 km. Kurile Islands. M= 5.7 SD 1.0 (CGS).
- 30 eZ P 01 42 30, USCGS: H= 01 30 12.7, 43.3N, 146.8E, h= 12 km. Kurile Islands. M= 5.3 SD 0.9 (CGS).
- 30 eZ P 02 00 46, USCGS: H= 01 48 28.6, 43.3N, 147.7E, h= 33 km. Kurile Islands region. M= 5.1 SD 1.0 (CGS).
- 30 eZ P 02 50 30, USCGS: H= 02 38 12.6, 43.3N, 147.7E, h= 33 km. Kurile Islands. M= 5.1 SD 1.1 (CGS).
- 30 Z P 03 14 (00), USCGS: H= 03 01 44.0, 43.1N, 147.2E, h= 28 km. Kurile Islands. M= 5.4 SD 1.0 (CGS).
- 30 eZ P 03 36 (06), USCGS: H= 03 23 41.9, 43.3N, 147.4E, h= 33 km. Kurile Islands. M= 4.9 SD 0.9 (CGS).



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- 30 eZ- P 03 57 10, eZ pP 03 59 19, eZ PP 03 01 24, eZ S 03 06 53, D= 10400 km. USCGS: H= 03 44 24.4, 6.1S, 113.3E, h=594 km. Java, M= 6.2 SD 0.8 (CGS).
- 30 eZ 04 13 13, eZ 04 13 21, traces.
- 30 eZ 06 36 58, eZ 06 36 38, traces.
- 30 eZ P 08 25 10, eZ pP 08 25 55, USCGS: H= 08 17 32.3, 36.4N, 70.7E, h= 205 km. Hindu-Kush region. M= 5.2 SD 0.9 (CGS).
- 30 eZ 15 10 29, eZ (Sn) 15 10 46, traces.
- 30 eZ 18 53 10, eZ 18 54 23, traces.
- 30 Pn 22 03 33, weak trace.
- 31 eZ PKIKP 01 39 21, eZ PKHKP 01 39 21, eZ PKHKP 01 39 26, USCGS: H= 01 20 44, 17.9S, 178.1W, h= 632 km. Fiji Islands region. M= 4.4 SD 0.7 (CGS).
- 31 eZ P 11 55 30, eiZ 11 55 36, eZ PP 11 57 43, D= 6800 km. USCGS: H= 11 45 16.9, 29.9N, 92.1E, h= 18 km. Tibet, M= 5.2 SD 1.0 (CGS).

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- 1 eZ P or PKP 11 12 57.
- 1 eZ P 12 59 38, USCGS: H= 12 47 23.1, 43.2N, 146.9E, h= 35 km. Kurile Islands. M= 5.5 SD 0.9 (CGS).
- 1 eZ PKP 16 45 59, USCGS: H= 16 25 12, 22.5S, 170.7E, h= 33 km. Loyalty Islands region.
- 1 eZ PKP 23 32 59, USCGS: H= 23 13 47.2, 18.5S, 169.0E, h= 228 km. New Hebrides Islands. M= 5.1 SD 1.0 (CGS).
- 2 eZ (Sn) 09 27 05.
- 2 eZ PKIKP 10 10 17, eZ PKHKP 10 10 22, iZ PKP2 10 10 28.2, eZ pPKP 10 10 48, D= 16700 km. USCGS: H= 09 50 41.2, 22.2S, 171.3E, h= 95 km. Loyalty Islands region. M= 5.1 SD 1.2 (CGS).
- 2 eZ 13 13 21, eZ (Sn) 13 14 15, traces.
- 2 eZ Pn 15 17 16, eZ (Sn) 15 18 37, (D=750 km.) USCGS: H= 15 15 42, 41.4N, 20.1E, h= 32 km. Albania.
- 2 eZ P or PKP 17 22 41, traces.
- 3 eiZ (Sg) 00 54 21.0, traces.
- 3 eZ+ P 03 38 26, USCGS: H= 03 26 16.6, 46.6N, 152.6E, h=45

- (cont.) km. Kurile Islands region. M= 5.3 SD 0.7 (CGS).
- 3 eZ PKP 05 36 00, USCGS: H= 05 16 18.6, 17.5 S, 176.3E, h= 33 km. Fiji Islands region. M= 5.1 SD 1.0 (CGS).
- 3 eZ P 05 49 34, eZ PP 05 53 10, eZ PPP 05 55 09, D= 10400 km. USCGS: H= 05 36 14.6, 16.7N, 99.4W, h= 9 km. Near coast of Guerrero, Mexico. 1 injured at Acapulco. Slight damage at Mexico City, felt throughout southern Mexico. M= 6- 6 1/4 (PAS), 5.7- 5.8 (BKS), 6 1/4- 6 1/2 (GOL), 5.7 SD 1.1 (CGS).
- 3 eZ P 11 42 59, eZ 11 42 10, USCGS: H= 11 30 44.4, 43.2N, 146.8E, h= 33 km. Kurile Islands. M= 5.5 SD 0.9 (CGS).
- 3 eZ 13 19 00, eZ 13 19 11.2, traces.
- 3 eZ P 15 53 32, eZ (PP) 15 57 35, USCGS: H= 15 40 44.5, 16.6 N, 93.5W, h= 142 km. Chiapas, Mexico. M= 5.5 SD 1.0 (CGS).
- 4 eZ 05 45 25, eZ 05 45 45, traces.
- 4 eZ P 11 13 09, USCGS: H= 11 00 50.1, 43.ON, 147.1W, h=33 km. Kurile Islands. M= 6 1/4 (PAS), 5.6-5.8 (BRK), 6 (PAS), 5.5 SD 1.4 (CGS).
- 4 iZ Pg 20 22 46.5, iZ Sg 20 22 48.1, D= 15 km. Weak.
- 5 eiZ Sg 11 19 40.8
- 6 iZ Pg 06 31 39, iZ Sg 06 31 44.8, D= 50 km, very weak.
- 6 eiZ Pg 10 16 44, iZ Sg 10 16 58.4, D= 120 km.
- 6 eZ Pg 20 01 (44), eZ Sg 20 01 50, D= 50 km.
- 7 eZ Pg 05 56 10 eZ Sg 05 56 23, D= 120 km.
- 7 eZ P 06 41 06, USCGS: H= 06 28 38, 31.ON, 130.9E, h= 52 km. Kyushu, Japan. M= 4.7 SD 1.1 (CGS).
- 7 eZ 11 33 35, eZ Sn 11 34 21, traces.
- 7 eZ Pn 22 25 20, eiZ Sn 22 27 48, D= 1200 km. BCIS: H= 22 22 18 (DECM), 36.6N, 26.9E, h= 160 km. Dodecanese. ML= 5.0 (Athens). USCGS: H= 22 22 20.2, 36.7N, 26.8E, h= 161 km. Dodecanese Islands. M= 5.0 SD 0.9 (CGS).
- 8 eZ- P 11 06 44, USCGS: H= 10 58 22.1, 14.6N, 53.9E, h= 33 km. Arabian Sea. M= 5.2 SD 1.1 (CGS).
- 8 eZ- P 12 36 40, USCGS: H= 12 28 21.0, 14.6N, 54.0E, h= 33km. Arabian Sea. M= 5.4 SD 1.1 (CGS).
- 9 eZ - P 13 24 54, BCIS: H= 13 22 56(DECM), 45.8N, 26.4E,

- (cont.) h= 120 km. Rumania, Vrancea region, USCGS: H= 22 53.9, 45.6N, 26.4E, h= 122 km. Rumania. M= 4.6 SD 1.2 (CGS).
- 9 eZ PKIKP 16 55 23, eZ PKP2 16 55 32, USCGS: H= 16 35 41.4 23.3S, 171.2E, h= 99 km. Loyalty Islands region. M= 4.7 SD 1.2 (CGS).
- 9 eZ Sg 21 22 47, traces.
- 10 eiZ+ Pn 10 12 12, iZ Sn 10 12 45.6, iZ Sg 10 12 55.2, D=300 km.
- 10 eZ P 17 11 51, USCHS: H= 17 03 03.8, 34.1N, 78.5E, h= 37 km. Kashmir-Tibet border region. M= 5.2 SD 0.9 (CGS).
- 10 eZ 17 27 58, eZ 17 28 39, traces.
- 10 eZ PKP 20 28 16, USCGS: H= 20 08 41.6, 14.7S, 166.5E, h=13 km. New Hebrides Islands. M= 4.7 SD 1.6 (CGS).
- 11 eZ P 12 24 17, USCGS: H= 12 14 08.6, 28.ON, 139.5E, h=513 km. Bonin Islands region. M= 4.7 SD 0.9 (CGS).
- 11 eZ P 20 47 16, USCGS: H= 20 38 29.4, 34.2N, 78.6E, h= 44 km. Kashmir-Tibet border region. M= 5.1 SD 1.1 (CGS).
- 12 eZ P 06 00 26, eZNE PKHKP 06 03 44, eZ PKIKP 06 03 52, eZNE PP 06 05 43, eZ 06 07 11, D= 14000 km. USCGS: H= 05 44 47.6 5.5S, 153.2E, h= 74 km. New Ireland region. Felt at Sohano, Rongamatane and Rabaul. M= 7-7 1/4 (PAS), 7-7.5 (BRK), 7-7 1/4 (PAL).
- 12 eZ PKIKP 07 56 29, eZ PKHKP 07 56 32, eZ PKP2 07 56 44, D= 17000 km. USCGS: H= 07 36 37.4, 18.4S, 173.1W, h= 26 km. Tonga Islands. M= 4.8 SD 1.4 (CGS).
- 12 iZ- Pn 10 20 55.2, iZ Sn 10 22 32.3, iZ! 10 22 41.2, D=930 km. BCIS: H= 10 18 53, (DECM), 38.ON, 17.8E, h= 40 km. Ionian Sea. Southeast of Calabbria. ML= 5.1 (Athens), USCGS: H= 10 18 51.9, 38.1N, 17.8E, h= 15 km. Southern Italy. H= 5.3 SD 0.9 (CGS).
- 12 eZ Pn 16 28 05, BCIS: H= 16 25 59 (DECM), 37.7N, 12.8E, Sicily aftershock. MLH= 4.3 (Pruhonice), USCGS: H= 16 26 03.6 37.9N, 13.1E, h= 33 km. Sicily, felt in western Sicily. M= 4.4 SD 1.1 (CGS).
- 12 Z Pg 22 06 (00), iZ 22 06 07.8.
- 12 iZ 22 06 55.6, traces.
- 13 eZ PKP 11 40 29, USCGS: H= 11 21 23, 5.5S, 152.7E, h= 51km. New Britain region. M= 4.8 SD 1.2 (CGS).

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- 13 eZ PKP 14 25 09, USCGS: H= 11 21 23, 5.5S, 153.0E, h= 54 km. New Ireland region. M= 5.0 SD 1.3 (CGS).
- 13 eZ Pn 17 23 35, iZ Sn 17 23 56, D= 200 km.
- 14 eZ 10 46 38, eZ (Sn) 10 46 58, traces.
- 14 eZ Pg 15 14 (04), eiZ Sg 15 14 14, (D= 90 km.)
- 15 eZ P 23 02 14, USCGS: H= 22 52 54, 1.9S, 12.7W, h= 33 km. North of Ascension Island. M= 5.1 SD 1.2 (CGS).
- 16 eZ P 14 34 32, USCGS: H= 14 23 42.6, 49.7N, 147.7E, h= 582 km. Sea of Okhotsk. M= 4.7 SD 09 (CGS).
- 16 eZ P 19 39 (45), USCGS: H= 19 30 23, 1.9S, 12.4W, h= 16km. North of Ascension Island. M= 5.0 SD 1.3 (CGS).
- 19 eZ Pn 00 13 47, eZ Sn 00 14 20, D= 300 km.
- 19 eZ 01 01 22, eZ Sn 01 01 56, traces.
- 19 eZ PKP 14 14 09 USCGS: H= 13 55 12.2, 5.5S, 153.1E, h= 73 km. New Ireland region. M= 5.5 SD 1.0 (CGS).
- 19 iNE Pn 22 48 15.5, eNE Sn 22 50 14, D= 1150 km. BCIS: H= 22 45 44 (DECM) 39.3N, 25.0E, h= 45 km. Aegean Sea, near Island Haghios-Evstratios. 20 killed, 18 injured, very important damage on Island Haghios-Evstratios; Numerous houses destroyed on Lemnos Island and Lesbos. Felt in Greece, Italy and Turkey. M= 7 1/4-7 1/2 (PAS), 6.4-6.7(BRK), 7 1/4-7 1/2 (PAL), 7 1/4- 7 1/2 (GOL).
- 20 eZ Pn 09 38 15, iZ! 09 38 17.8, eZ Sn 09 40 22, D= 1180 km. BCIS: H= 09 35 47 (DECM) 39.5N, 25.0 E, ML= 4.5 (Athens), Aegean Sea, aftershock. of the seisms of February 19, at 22h 45m. USCGS: H= 09 35 50, 39.3N, 24.9E, h= 33 km. Aegean Sea. M= 4.4 SD 1.1 (CGS).
- 20 eiZ+ Pn 09 43 34, eZ Sn 09 45 33, D= 1150 km. BCIS: H= 09 41 06 (DECM), 39.5N, 25.2E, Aegean Sea, aftershock. M= 5.0 (Athens), USCGS: H= 09 41 09.6, 39.4N, 24.9E, h= 33 km. Aegean Sea. M= 4.7 SD 1.4 (CGS).
- 20 eiZ P 16 53 58, BCIS: H= 16 50 37 (DECM), 36.2N, 27.5E, West of Island Rhodes. USCGS: H= 16 50 43.3, 36.2N, 27.5E, h= 53 km. Dodecanese Islands. M= 4.9 SD 1.3 (CGS).
- 21 eZ Pn 01 02 28, eZ 01 03 58, Athens: H= 01 00 40, 40 3/4N, 20 3/4 E, ML= 4.6.
- 21 eZ P 01 57 40, USCGS: H= 01 44 50.5, 32.0N, 130.6E, h= 3km. Kyushu, Japan. M= 5.0 SD 1.2 (CGS).
- 21 eZ Pn 07 21 16, Athens: 07 18 49, 39.2N, 25.1E, ML= 4.0.

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- 21 eZ Pn 12 38 22, eZ 12 40 09, BCIS: H= 12 36 00(DECM), 39.5 N, 24.9E, Aegean Sea. M= 4.1 (Athens).
- 21 eZ Pn 14 05 08, eZ (Sn) 14 05 55, weak. D= 1020 km.
- 21 eZ P or PKP 15 42 43, weak.
- 21 eZ Pn 17 16 36, eZ 17 17 41, eZ (Sn) 17 18 08, (D= 900 km.)
- 21 eZ 18 32 06, eZ Sn 18 33 06, traces.
- 21 eZ 18 48 08, eZ 18 49 11, traces.
- 21 eZ 19 48 03, eZ 19 48 46, traces.
- 21 eZ Pn 20 43 36, eZ Sn 20 44 52, eZ Sg 20 45 17, D= 710 km.
- 22 eZ Pn 02 18 11, BCIS: H= 02 16 40 (DECM), 39.7N, 25.7E, Aegean Sea, aftershock. ML= 4.2 (Athens). USCGS: H= 02 16 41.0, 39.6N, 25.7E, h= 24 km. Aegean Sea. M= 4.3 SD 0.8 (CGS).
- 22 eZ Pn 05 00 13, eZ (Sn) 05 02 11, D= 1150 km. BCIS: H= 04 57 45 (DECM), 39.4N, 25.2E, Aegean Sea, aftershock. M= 4.7 (Athens). USCGS: H= 04 57 49.1, 39.5N, 25.1E, h= 33 km. Aegean Sea. M= 4.6 SD 1.1 (CGS).
- 22 eZ 07 32 11, eZ (Sn) 07 33 24, weak.
- 22 eZ 09 16 40, eZ (Sn) 09 17 50, traces.
- 22 eZ Pn 09 54 08, eZ Sn 09 55 22, D= 750 km. BCIS: H= 09 52 33, Yugoslavia-Albania border region. Felt on the region of Debar. Io = V-VI (MCS), M= 3.3 (Skopje).
- 22 eZ Pn 09 57 16, eZ Sn 09 58 31, D= 750 km. BCIS: H= 09 55 43, Yugoslavia-Albania border region. Felt on the region of Debar. Io = V (MCS), M= 3.0 (Skopje).
- 22 eZ Pn 10 03 31, eZ Sn 10 04 46, D= 720 km.
- 22 eZ Pn 11 01 54, eZ (Sn) 11 03 07, (D= 710 km.)
- 22 eZ Pn 12 24 16, eZ (Sn) 12 25 23, D= 700 km. BCIS: H= 12 22 42, Yugoslavia-Albania border region. Felt on the region of Debar. Io = VI-VII (MCS), M= 4.1 (Skopje).
- 22 eZ Pn 12 35 41, eZ Sn 12 36 56, D= 720 km. BCIS: H= 12 34 07, Yugoslavia-Albania border region. Felt on the region of Debar. Io = V (MCS), M= 3.0 (Skopje).
- 22 eZ Pn 12 49 30, eZ Sn 12 50 50, D= 720 km.
- 22 eZ Pn 15 30 31, eZ Sn 15 31 50, D= 720 km.

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- 23 eZ PKP 02 33 13, USCGS: H= 02 13 24.5, 22.2S, 170.2E, h=20 km. Loyalty Islands region. M= 4.9 SD 1.2 (CGS).
- 23 eZ Pn 08 57 06, eZ 08 59 46, traces.
- 23 eZ Pn 19 05 (11), iZ Sn 19 05 57, (D= 420 km.)
- 24 eZ PKP 01 31 13, USCGS: H= 01 11 11.6, 32.5S, 177.7W, h= 21 km. South of Kermadec Islands. M= 5.4 SD 1.1 (CGS).
- 24 eZ Pn 12 56 35, iZ Sn 12 57 49.7, iZ Sb 12 58 14.2, D= 700 km. BCIS: H=12 55 00 (DECM), 41.5N, 20.5E, Albania-Yugoslavia border region. Felt VI-VII (MCS) on the region of Debar. M= 4.1 (Skopje). Aftershock of the seismic of November 30, at 07h 23m.
- 24 eiz P 13 25 55, BCIS: H= 13 23 56 (DECM), 46.2N, 26.6E, h= 100 km. Carpathians (Rumania). USCGS: H= 13 23 53.4, 45.8 N, 26.6E, h= 134 km. Rumania. M= 4.4 SD 1.1 (CGS).
- 25 eZ Pn 08 03 25, iZ 08 03 43.5, iZ Sn 08 03 55.0, D= 270 km. BCIS: H= 08 02 55 (DECM 47.5N, 15.9E, Austria, 47.5N, 16.0E (Wien), Wechselgebiet (Semmering region), Io = IV-V (MCS).
- 25 eZ P 15 43 (36), BCIS: H= 15 40 44 (DECM), 36.5N, 5.4E, Algeria. Babors region. Strongly felt at El Alen. 1 dead, 4 injured, a Hundred houses destroyed. Felt at Ziana- Mansourah, Djidjelli and Setif. USCGS: H= 15 40 44.8, 36.8N, 5.6 E, h= 20 km. Algeria. 1 dead, 4 injured and 100 houses destroyed at El Alen. M= 4.9 SD 1.1 (CGS).
- 25 eZ P 20 12 56, USCGS: H= 20 00 31.5, 37.6N, 141.4E, h= 66 km. Near coast of Honshu, Japan. M= 5.5 SD 0.9 (CGS).
- 26 eZ P 11 02 52, eZ PP 1106 07, eZ S 11 13 14, D= 9100 km. USCGS: H= 10 50 16.7, 22.7N, 121.5E, h= 24 km. Taiwan region. Landslides on Taiwan. Felt at Hong Kong. M= 6 3/4 (PAS), 6.7-6.8 (BRK), 6 3/4-7 (PAL), 7 1/4-7 1/2 (GOL).
- 27 eZ Pn 13 40 (21), eZ 13 41 09, BCIS: H= 13 37 41 (DECM), 39.5N, 25.5E, Aegean Sea. M= 4.5 (Moskva), ML= 4.3 (Athens).
- 27 eZ Pn 18 16 50, iZ (Sn) 18 17 14.6, D= 220 km.
- 28 eZ P 12 20 04, eZ pP 12 21 25, eZ PP 12 23 12, D= 9200 km. USCGS: H= 12 08 01.5, 32.9N, 137.7E, h= 349 km. South of Honshu, Japan. M= 5.8-6.2 (BRK), 5.8 SD 0.8 (CGS).
- 29 eZ Pn 05 20 40, eZ (Sn) 05 22 22, D= 1000 km. USCGS: H= 05 18 26.7, 38.1N, 20.2E, h= 3 km. Greece. M= 4.3 SD 1.0 (CGS).
- 29 eZ Pn 11 49 (22), eZ 11 50 51, traces.
- 29 eZ Pn 12 49 (46), eZ 12 50 26, weak. USCGS: H= 12 47 32, h= 18 km. Aegean Sea. 39.ON, 24.3E, M= 4.3 SD 1.5 (CGS).

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- 29 iZ Pg 14 36 59.5, iZ 14 37 02.9, D= 23 km, weak.
- 29 iZ Pg 23 22 19, iZ Sg 23 22 34.7, D= 130 km.

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- 1 eZ Pn 10 44 07, eZ (Sn) 10 44 25, D= 140 km, weak.
- 1 eZ Pn 22 16 39, USCGS: H=22 06 43.8, 14.7N, 45.0W, h= 33 km. North Atlantic ridge. M= 4.6 SD 1.3 (CGS).
- 2 eZ Pn 06 54 (35), eZ Sn 06 55 33, D= 530 km. BCIS: H= 06 53 03, (DECM), 45.1N, 21.1E, Yugoslavia, felt IV (MCS) at Vršac (45°07'N, 21°15'E), M= 3.6 (Beograd).
- 2 eZ- P 22 13 49, USCGS: H=22 02 24.8, 6.1S, 71.4E, h= 33km. Chagos Archipelago region. M= 5.6 SD 1.2 (CGS).
- 3 eZ PKP 03 52 13, eZ PP 03 55 33, D= 16100 km. USCGS: H=03 32 57.1, 194S, 169.5E, h= 211 km. New Hebrides Islands. M= 5.2- 5.4 (BRK), 5.0 SD 1.0 (CGS).
- 3 eZ P 09 39 31, USCGS: H= 09 31 20.2, 34.7N, 72.3E, h= 33 km. West Pakistan. M= 5.2 SD 0.8 (CGS).
- 3 eZ P 23 08 40, eZ 23 09 34, eZ 23 10 23, eZ (S) 23 19 45, USCGS: H= 22 55 36.8, 1.5N, 122.6E, h= 435 km. Northern Celebes. M= 5.5 SD 1.1 (CGS).
- 4 eZ Pn 09 01 32, eZ Sn 09 01 50, D= 145 km.
- 4 eZ P 17 10 26, USCGS: H= 17 01 00, 1.2S, 15.7W, h= 25 km. North of Ascension Island. M= 4.6 SD 0.6 (CGS).
- 4 Z Sg 23 40 (00), traces.
- 5 eZ 00 06 58, traces.
- 5 eZ P 00 34 22, USCGS: H= 0022 06.9, 53.8N, 163.3W, h= 2km. Unimak Islands region. M= 4.8 SD 1.0 (CGS).
- 5 eZ P 00 43 09, USCGS: H= 00 30 57.4, 53.8N, 163.3W, h= 33 km. Unimak Islands region. M= 4.9 SD 1.1 (CGS).
- 5 eZ PKIKP 14 56 14, eZ PKHKP 14 56 20, iZ PKP2 14 56 26.5, D= 16800 km. USCGS: H= 14 36 41.5, 18.1S, 174.7W, h= 137 km. Tonga Islands. M= 4.9-5.3 (BRK), 5.1 SD 0.8 (CGS).
- 5 eZ P 18 29 54, USCGS: H= 18 16 39.6, 9.6N, 126.3E, h= 61km. Mindanao, Philippine Islands. Felt at Cagayan de Oro and Surigao. M= 6-6 1/4 (GOL), 5 3/4-6 (PAL), 5.5 SD 1.1 (CGS).
- 5 eZ P 18 51 41, weak. USCGS: H= 18 38 06.3, 9.6N, 126.2 E,

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- (cont.) h= 60 km. Mindanao, Philippine Islands, M= 5.4 SD 1.2 (CGS).
- 6 eZ P 00 24 41, USCGS: H= 00 12 33.1, 36.2N, 139.8E, h= 53 km. Honshu, Japan. Felt in central Japan area. M= 5.0 SD 0.7 (CGS).
- 6 eZ P 05 17 18, eZ S 05 19 35, D=1240 km. BCIS: H= 05 14 52 (DECM), 39.4N, 25.0E, Aegean Sea. USCGS: H= 05 14 54, 39.2 N, 25.3E, h= 33 km. Aegean Sea. M= 4.4 SD 0.9 (CGS).
- 6 Z Pg 08 26 (00), iZ 08 26 21.0 .
- 6 eZ 13 45 39, iZ Sg 13 45 43.3, traces.
- 7 eZ PKIKP 03 14 36, eZ PKHKP 03 14 37, eZ PKP2 03 14 42, D= 16400 km. USCGS: H= 02 54 53.5, 16.0S, 178.6E, h= 33 km. Fiji Islands. M= 5.1 SD 1.1 (CGS).
- 7 eZ P 07 26 59, eZ 07 27 09, eZ 07 27 42, BCIS: H= 07 21 16 (DECM), 71.5N, 4.3W, east of Jan Mayen. M= 5.8 (Qetta), MLH= 5.5 (Strasbourg), MPH, MSH= 5.5 (Collm), MPV= 5.4 (Collm), MLH= 5.3 (Pruhonic), 5.2 (Collm), MLV= 5.2 (Moxa), MPV, MLH= 5.2 (Moxa). USCGS: H= 07 21 06.5, 71.7N, 3.1W, h= 26 km. Jan Mayen Islands region. M= 4.6 SD 1.1 (CGS).
- 7 eZ PKP 13 41 15, USCGS: H= 13 22 16.6, 5.9S, 151.1E, h= 39 km, New Britain region. M= 6 1/2 (PAS), 6.2- 6.5 (BRK).
- 7 eZ 14 39 10, eZ (Sn) 14 39 20, traces, USCGS: H= 14 33 41, 35.2N, 25.7E, h= 89 km. Crete. M= 4.4 SD 0.9 (CGS).
- 7 eZ Pn 17 51 25, eZ (Sn) 17 53 06, (D= 960 km.)
- 9 eZ P 00 57 48, USCGS: H= 00 46 00.9, 8.7N, 94.0E, h= 33km. Nicobar Islands region. M= 5.0 SD 1.4 (CGS).
- 9 eZ Pn 14 57 46, eZ (Sn) 14 59 35, traces, (D= 1100 km.)
- 9 eZ PKP 21 1924, USCGS: H= 20 59 41.4, 14.6S, 175.4W, h= 42 km. Samoa Islands region. M= 4.7 SD 1.1 (CGS).
- 9 eZ PKP 22 55 14, USCGS: H= 22 36 20.2, 21.7S, 178.9W, h= 544 km. Fiji Islands region. M= 5.4 SD 1.6 (CGS).
- 10 eZ Pn 06 50 37, eZ Sn 06 52 28, eZ 06 52 43, D= 1100 km. BCIS: H= 06 48 14 (DECM), 38.9N, 24.3E, M= 5.0 (Athens), Aegean Sea. USCGS: H= 06 48 16.4, 39.1N, 24.3E, h= 33km. Aegean Sea. M= 4.4 SD 1.5 (CGS).
- 10 eZ Pn 07 13 24, iZ 07 14 58.8, eZ (Sn) 07 15 16, D= 1100km. BCIS: H= 07 10 57 (DECM), 39.0N, 24.2E, Aegean Sea. M= 5 1/2 (Athens), MLH= 5.4 (Collm), 5.1 (Roma).
- 10 eZ PKP 07 31 16, USCGS: H= 07 11 22.1, 36.3S, 179.4 E, h=

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- (cont.) 76 km. Off eastern coast of New Island, New Zealand. M= 5.4-5.7 (BRK), 5.7 SD 1.3 (CGS).
- 10 eZ Pg 12 43 49, iZ Sg 12 43 51.7, D= 20 km, very weak.
- 11 eZ PKIKP 08 46 05, iZ PKP2 08 46 10.8, D= 16500 km. USCGS: H= 08 26 32.8, 16.2S, 173.9W, h= 112 km. Tonga Islands. Felt at Apia. M= 6 1/2-6 3/4 (PAS), 6-6.3 (BRK), 6.0 SD 1.1 (CGS).
- 11 eZ Pn 17 35 (15), eZ 17 35 36, eZ 17 37 27, traces. BCIS: H= 17 32 48 (DECM), 39 3/4N, 25 1/2 E, Aegean Sea. ML= 4.2 (Athens).
- 12 eZ PKHKP 18 43 18, iZ PKP2 18 43 52.5, D= 16300 km. USCGS: H= 18 23 34.1, 14.9S, 176.9W, h= 33 km. Fiji Islands region. M= 5.3 SD 0.9 (CGS).
- 12 iZ Pn 19 58 28.8, iZ 19 58 36.6, iZ (Sn) 19 59 06.7, D=340 km. BCIS: H= 19 57 46 (DECM), 44.0N, 12.0E, Apennin Etruscan.
- 13 eZ Pn 07 50 (40), eZ 07 51 30, traces.
- 13 eZ Pn 11 20 51, eZ 11 21 26, weak.
- 13 eZ P 12 57 48, USCGS: H= 12 48 32.0, 22.5N, 45.2W, h= 33 km. North Atlantic ridge. M= 4.6 SD 1.2 (CGS).
- 13 eZ PKIKP 20 44 22, iZ PKHKP 20 44 30.4, eZ PKP2 20 44 42, eZ pPKP 20 46 30, D= 16900 km. USCGS: H= 20 25 32.1, 20.5 S, 178.1W, h= 520 km. Fiji Islands region. M= 5.1-5.5 (BRK), 5.0 SD 0.8 (CGS).
- 13 eZ P 22 45 46, eZ 22 47 25, eZ 22 48 07, USCGS: H= 22 38 42.2N, 66.5E, h= 33 km. Central Kazakh SSR, felt at Tashkent. M= 5.2 SD 1.2 (CGS).
- 14 eZ P 02 15 43, eZ 02 18 05, USCGS: H= 02 08 36.6, 42.3N, 66.5E, h= 33 km. Central Kazakh SSR, felt at Tashkent. M= 5.4 SD 1.0 (CGS).
- 15 eZ Pn 03 01 07, eZ Sn 03 02 25, D= 730 km. BCIS: H= 02 59 31, 41.5N, 20.4E, Albania-Yugoslavia border region. Felt on the region of Debar. Io = VI (MCS), M= 3.6 (Skopje).
- 15 eZ P or PKP 10 54 51,
- 15 eZ Pn 22 57 47, iZ 22 58 07.6, iZ Sn 22 58 41.3, iZ 22 59 08.1, D= 540 km. BCIS: H= 22 56 34 (DECM), Io = VI (MCS), Felt IV at Kraljevo (43°44'N, 20°41'E), M= 4.3 (Beograd), 3.3 (Skopje), Srbija, Yugoslavia. USCGS: H= 22 56 34.6, 43.8N, 20.5E, h= 33 km. Yugoslavia, felt at Kraljevo. M= 4.2 SD 1.3 (CGS).

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- 16 *X* iZ Pn 00 16 43.6, iZ (Sn) 00 17 45.1, D= 540 km. BCIS: H= 00 15 31 (DECM), 43.7N, 20.7E, felt at Kraljevo. Yugoslavia. Io = V (MCS), M= 4.1 (Beograd), 2.8 (Skopje).
- 16 Z 03 47 (00), eZ Sn 03 47 48, traces. *X*
- 16 eZ 13 02 36, eZ 13 02 44, traces.
- 16 eZ 13 31 17, eZ Sn 13 31 28, weak.
- 16 eZ 15 54 47, eZ Sn 15 56 42, weak.
- 16 eZ Pn 18 13 29, eZ Sn 18 15 23, D= 1100 km. BCIS: H= 18 11 00 (DECM), 39.4N, 24.9E, Aegean Sea. ML= 4.9 (Athens). US CGS: H=18 11 06.5, 39.5N, 25.0E, h= 43 km. Aegean Sea. M= 4.6 SD 1.1 (CGS).
- 17 eZ 01 19 07, eZ Sn 01 19 25, weak.
- 17 eZ PKIKP 20 32 47, USCGS: H= 20 14 32.8, 3.4N, 128.1E, h= 62 km. North of Halmahera. M= 5.7 SD 1.1 (CGS)&
- 18 eZ P or PKP 07 44 13.
- 18 eZ P or PKP 22 03 34.
- 19 eZ+ PKIKP 01 55 41, iZ PKHKP 01 55 45.3, iZ PKP2 01 55 52.7, D= 16800 km. USCGS: H= 01 35 49.2, 17.4S, 172.8W, h= 33 km. Tonga Islands. M= 6 1/2- 6 3/4 (GOL), 5.2 SD 1.0 (CGS).
- 19 eZ P 02 30 14, USCGS: H= 02 19 12.7, 05.1N, 60.5W, h= 55km. Leeward Islands. M= 5.1 SD 0.7 (CGS).
- 19 eZ P or PKP 19 09 13.
- 19 eZ PKP 19 28 06, USCGS: H= 19 08 15, 15.1S, 173.6W, h=33 km. Tonga Islands. M= 4.6 SD 0.5 (CGS).
- 19 eZ PKP 19 37 33, USCGS: H= 19 17 46.8, 26.4S, 177.4W, h= 23 km. South of Fiji Islands. M= 5.1 SD 1.0 (CGS).
- 20 eZ P 08 02 22, USCGS: H= 07 54 40.4, 40.9N, 75.1E, h= 60km. Kirgiz-Sinkiang border region. M= 4.6 SD 0.6 (CGS).
- 20 eZ P 12 25 16, USCGS: H= 12 13 08.4, 51.4N, 177.7E, h= 45 km. Rat Islands, Aleutian Islands. M= 5.1 SD 0.9 (CGS).
- 20 eZ PKP 13 13 45, USCGS: H= 12 53 59.8, 15.1S, 173.4W, h=33 km. Tonga Islands. M= 4.8 SD 1.0 (CGS).
- 21 eZ Pn 16 11 54, eZ Sn 16 13 55, D=1200 km. BCIS: H= 16 09 22 (DECM), 39.6N, 25.7E, Aegean Sea. ML= 4.4 (Athens). US CGS: H= 16 09 22.1, 39.7N, 25.6E, h= 19 km. Aegean Sea. M= 4.3 SD 1.4 (CGS).

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- 22 eZ PKP 09 33 (53), eZ 09 34 58, USCGS: H=09 15 12.3, 13.1N, 145.5E, h= 50 km. Mariana Islands. M= 4.9-5.3 (BRK), 5.4 SD 1.2 (CGS).
- 22 eZ Pn 19 31 26, eZ (Sn) 19 32 37, D= 670 km. BCIS: H= 19 29 58 (DECM), 40.1 N, 16.3E, Basilicata, Central Italy. M= 4.0 (Roma).
- 23 eZ P or PKP 03 07 45,
- 23 eZ Sg 12 51 21, traces.
- 23 eZ 16 33 54, traces.
- 23 eZ Pn 17 19 06, eZ (Sn) 17 21 (00), D= 1120 km. Weak.
- 23 *X* eZ Pn 17 28 20, iZ Sn 17 30 16.8, D= 1160 km. BCIS: H= 17 25 50 (DECM), 39.8N, 25.7E, Aegean Sea. Felt in western Anatolia. USCGS: H= 17 25 53.2, 39.8N, 25.5E, h= 33 km. Aegean Sea. Felt throughout western Anatolia. M= 4.6 SD 1.5 (CGS).
- 23 eZ 21 16 13, eZ (Sn) 21 17 31, traces. BCIS: H= 21 13 42, 39.7N, 25.4E, Aegean Sea. ML= 3.8 (Athens). USCGS: H= 21 13 43, 39.6N, 25.5E, h= 28 km. Aegean Sea. M= 4.1 SD 1.5 (CGS).
- 24 eZ P 07 22 40, USCGS: H= 07 12 47.4, 1.3S, 24.2N, h= 33 km. Central Mid-Atlantic ridge. M= 5.4 SD 1.2 (CGS).
- 24 eZ Pn 09 55 30, eZ 09 57 22, traces.
- 24 eZ 12 51 41, eZ Sg 12 51 58.4, weak.
- 25 eZ PKHKP 03 16 17, iZ PKIKP 03 16 19.2, eZ PKP2 03 16 26, D= 16300 km. USCGS: H= 02 56 37.1, 20.0S, 168.9E, h= 21km. Loyalty Islands. M= 5.0 SD 1.2 (CGS).
- 25 eZ P or PKP 04 31 59, very weak.
- 25 eZ 07 14 12, iZ Sg 07 14 16.0, traces.
- 25 eZ 08 14 52, eZ Sn 08 15 22.
- 25 eZ Pn 13 49 56, eZ 13 50 34, weak.
- 26 eZ P 00 54 59, eZ pP 00 57 (00), eZ PP 00 59 16, eZ pPP 01 01 07, eZ S 01 04 46, D= 11400 km. USCGS: H= 00 41 56.9, 6.6S, 116.1E, h= 520 km. Bali Sea. M= 5.9 SD 09 (CGS).
- 26 eZ PKP 14 53 43, USCGS: H= 14 34 53.7, 20.5S, 178.7W, h= 603 km. Fiji Islands region. M= 4.5 SD 0.6 (CGS).
- 26 *X* eZ P 19 42 06, BCIS: H= 19 37 31 (DECM), 34.2N, 35.5E, Lebanon. Felt in entire Lebanon, and III-IV (MCS) in the *X*

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- (cont.) north, State of Israel. M= 4.2 (Ksara). USCGS: H= 19 37 33.7, 34.2N, 35.5E, h= 33 km. Jordan- Syria region. Felt at Beirut, Lebanon. M= 4.9 SD 0.9 (CGS).
- 26 eZ P 19 54 15, eZ pP 19 54 37, eZ PP 19 58 17, eZ pPP 19 58 47, D= 10900 km. USCGS: H= 19 40 42.1, 8.1 N, 126.4E, h= 83 km. Mindanao, Philippine Islands. Felt on northern Mindanao. M= 5.4 SD 1.0 (CGS).
- 26 eZ PKP 21 44 54, USCGS: H= 21 24 59.3, 30.3S, 178.0W, h= 60 km. Kermadec Islands region. M= 4.9 SD 1.2 (CGS).
- 27 eZ P 04 05 33, USCGS: H= 03 56 06.8, 1.1S, 15.4W, h= 33km. North of Ascension Island. M= 4.8 SD 1.2 (CGS).
- 27 eZ P 05 04 51, weak. USCGS: H= 04 52 42.9, 47.9N, 154.0E, h= 24 km. Kurile Islands. M= 5.4 SD 0.8 (CGS).
- 27 eZ Pn 05 18 43, eZ 05 19 20, BCIS: H= 05 16 15 (DECM), 39.8N, 25.4E, Aegean Sea.
- 27 eZ P 19 05 40, USCGS: H= 18 53 31.5, 40.9N, 138.0E, h= 27km. Eastern Sea of Japan. M= 5.4 SD 0.8 (CGS).
- 27 eZ PKP 21 29 56, weak. USCGS: H= 21 11 00.9 25.5S, 179.6E, h= 525 km. South of Fiji Islands. M= 5.0 SD 0.9 (CGS).
- 27 eZ PKP 22 55 24, USCGS: H= 22 36 43.3, 4.3S, 133.3E, h= 33 km. West of New Guinea region. M= 5.5 SD 1.7 (CGS).
- 28 eZ PKP 06 04 27, USCGS: H= 05 45 06.6, 10.8S, 166.0E, h= 42 km. Santa Cruz Islands. M= 5.2 SD 0.9 (CGS).
- 28 eZ Pn 07 42 15, iZ Pb 07 42 23.4, Z Pg 07 43 (00), iZ Sn 07 43 59.0, iZNE 07 45 40.9, D= 1030 km. BCIS: H= 07 40 02 (DECM), 38.1N, 20.8E, Ionian Sea. Ionian Islands region. M= 6.1 (Athens), 5.9 (Uppsala), 5.5 (Roma). USCGS: H= 07 39 57.1, 37.9N, 20.9E, h= 6 km. Ionian Sea. Felt in Peloponnisos. M= 5.4 SD 1.1 (CGS).
- 28 eZ 10 23 05, eZ (Sn) 10 24 09, weak.
- 28 eZ+ Pn 16 39 42, iZNE Sn 16 41 15.3, iZ 16 41 31.6, eNE 16 42 33, D= 1045 km. BCIS: H= 16 37 45 (DECM), 39.5N, 20.4E, Northwest of Greece. MLH= 5.2 (Collm), ML= 4.8 (Athens). USCGS: H= 16 37 46.8, 39.6N, 20.4E, h= 18 km. Greece- Albania border region. M= 4.8 SD 1.4 (CGS).
- 28 eZ (Sn) 23 15 54, eZ 23 16 31, weak.
- 29 eiZ Pn 06 30 22, eZ 06 31 42, eZ 06 31 06, eZ Sn 06 31 21, eZ 06 31 57, D= 550 km. BCIS: H= 06 29 03 (DECM), 43.4N, 20.9E, Yugoslavia. I_0 = V-VI (MCS) (Skopje), Felt V at Trstenik (43°37'N, 21°00'E) and III at Beograd. M= 4.3 (Beograd), 3.3 (Skopje).

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- 29 eZ Pn 07 10 (32), eZ (Sn) 07 11 56, eZ 07 12 22, weak.
- 29 Z 14 30 (00), eZ 14 31 29, traces.
- 29 eZ 20 47 06, eZ 20 47 22, traces.
- 30 eZ PKIKP 03 16 22, eZ PKHKP 03 16 28, D= 16900 km. USCGS: H= 02 57 44.0, 18.0S, 178.2W, h= 620 km. Fiji Islands region. M= 4.2 SD 0.7 (CGS).
- 30 eZ 05 17 07, iZ (Sn) 05 17 20.5, weak.
- 30 iZ Pg 11 36 30.7, iZ Sg 11 36 32.1, d= 10 km.
- 30 eZ P 13 40 16, USCGS: H= 12 26 37.7, 52.4N, 169.3W, h= 36 km. Fox Islands, Aleutian Islands. M= 4.5 SD 0.9 (CGS).
- 30 eZ Pn 15 23 33, eZ (Sn) 15 24 44, eZ 15 25 (00), D= 570 km.
- 30 eZ 19 38 37, eZ 19 38 55, traces.
- 31 eZ 16 37 06, eZ Sn 16 37 16, traces.

Ljubljana, February 26, 1969

Interpretation: M.Hržič
Redaction: V.Ribarič

26 JAN 1970!

University of Ljubljana
Astronomical and Geophysical Observatory



**PRELIMINARY
SEISMOLOGICAL BULLETIN**

IV — VI 1968

Ljubljana 1969

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.B. 01-20, Yugoslavia

1968

PRELIMINARY SEISMOLOGICAL
BULLETIN
/ April - June 1968 /

University of Ljubljana
 Astronomical and Geophysical
 Observatory,
 Ljubljana, Trg revolucije 11,
 P.O.B. 01+20, Yugoslavia

1968

PRELIMINARY SEISMOLOGICAL BULLETIN
 from April 1, to June 30, 1968

Station: Ljubljana / LJU / - Coordinates: $46^{\circ} 02.6' N$ Lat.
 $14^{\circ} 32.0' E$ Long.
 Geocentric direction cosines: $a = +6743$, $b = +1748$, $c = +7175$
 $d = - 8$, $h = - 4$
 Height above sea level: 396 m.
 Lithologic fundation: sandstone /carbon/.

Insruments:

Wiechert, horizontal astatic seismograph, $M = 200$ kg, mechanical registration, 16-18 mm/min.

Constants / 31.1.1966 /:				
Component	To	v:l	r/T ₀ ²	V
N-S	5.0	2.20	0.0043	69
E-W	4.9	2.37	0.0058	67

Hiller-Stuttgart, vetical component Z with galvanometrical recording. $T_0 = 1.5$ sec, $T_g = 1.5$ sec, $D_1 = D_2 = 1$, $V_{max} = 10150x$, registrtion velocity: 60 mm/min.

Note: Periods of seismic waves are given in seconds, the amplitudes in microns. Sign + means compression or movement of groud towards nordh or east, sign - means dilatation or movement towards south or west. All times are given in GMT. Time signals are recived one or two times daily and are registered on a chro-nograph. Wherever possible time readings up to one tenth of a second are given. Macroseismic data refer to Mercalli- Cancani-Sieberg scale / MCS /, macroseismic rays are given in kilometers. Abbreviation DECM means: Determination Was made by electronic computer.

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- 1 eiZNE+ P 0054 30.8, iZ PcP 00 54 41.3, eZ 01 04 43, eZNE S 01 04 43, D= 9140 km. USCGS: H= 00 42 04.2, 32.5N, 132.2E, h= 33 km. Shikoku, Japan. 1 killed, 22 injured, minor damage on Kyushu. Felt on Shikoku and Shouthern Honshu. 2.3 meters tsunami along east coast of Kyushu. M= 7 1/2- 7 3/4 /PAS/, 7.3-7.7/BRK/, 71/4- 71/2 /GOL/.

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- 1 eZ Pn 06 29 48, eZ Sn 06 31 44, eNE 06 59 42, eNE 07 06 36.5, BCIS: H= 06 27 23 /DECM/, 38.5N, 23.5E, Greece. D= 1060 km.
- 1 iZ+ P 07 25 45.2, USCGS: H= 07 13 17.6, 32.3N, 132.1E, H= 32 km. Shikoku, Japan. M= 5.9- 6.3/BRK/, 5.7 SD 1.1 /CGS/.
- 1 eZ P 11 42 06, eZ S 11 45 12, D= 1900 km. BCIS: H= 11 38 33 /DECM/, 34.ON, 26.OE, Mediterranean Sea, ML= 4.3/Athens/
- 1 eZ/P/ 16 16 33
- 1 eZ P 16 34 41, USCGS: H= 16 22 07, 26.9N, 126.9E, h= 33 km, Ryukyu Islands. M= 5.0 SD 1.1 /CGS/.
- 2 eZ PKP 08 32 42, USCGS: H= 08 12 44.2, 45.1S, 166.8E, h=15 km. Off W. coast of South Island N.Z. M= 5.2 SD 1.7 /CGS/.
- 2 eZ PKP 11 00 29, USCGS: H= 10 41 26.0, 14.3S, 167.3E, h= 198 km. New Hebrides Islands. Felt at Luganville. M= 5.0 SD 0.8 /CGS/.
- 2 eZ Pn 21 12 53, eZ Pb 21 13 14, eZ Sn 21 14 13, D= 760 km.
- 3 eiZ P 16 36 59.8, USCGS: H= 16 24 45.7, 51.7N, 174.2E, h= 38 km. Near Islands Aleutian Islands. M= 5.3 SD 1.0 /CGS/.
- 4 eZ Pg 13 44 56, iZ Sg 13 44 59.5, D= 15 km, weak. Local.
- 4 eZ Pn 23 23 19, eZ /Sn/ 23 24 42, D= 790 km.
- 5 eZ PKP 02 20 12.5, USCGS: H= 02 00 25.4, 16.0S, 179.8W, h= 50 km. Fiji Islands region. M= 4.6 SD 0.9 /CGS/.
- 5 Z Pn 15 57 /00/, eZ 15 59 37, BCIS: H= 15 54 31/DECM/, 39.7 N, 25.5E, Aegean Sea. ML= 4.2 /Athens/. USCGS: H= 15 54 32.2, 39.7N, 25.5E, h= 18 km, Aegean Sea. M= 4.5 SD 1.2 /CGS/.
- 5 eZ Pn 20 36 13, eZ /Sn/ 20 36 45, /D= 290 km./.
- 5 eZ Pg 2335 /58/, iZ Sg 23 36 13.0, /D= 120 km/.
- 7 eZ PKP 01 51 45, USCGS: H= 01 31 57.0, 16.9S, 177.2W, h=33 km. Fiji Islands region. M= 5.0 SD 0.8 /CGS/.
- 7 eZ Pn 03 44 27, eZ Sn 03 46 20, BCIS: H= 03 41 56 /DECM/, 38 3/4N, 24.OE, Eastern Aegean Sea. Felt on the Island Skyros. ML= 4.4/Athens/. USCGS: H= 03 42 00, 38.4N, 24.5 E, h= 33 km, Aegean Sea. M= 4.3 SD 1.6 /CGS/.
- 7 eZ P 04 52 37, USCGS: H= 04 40 19.3, 51.5N, 176.5E, h= 33 km, Rat Islands Aleutian Islands. M= 5.3 SD 1.3 /CGS/.

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- 7 eZ- P 05 23 26, eZ PcP 05 25 49, D= 3900 km, USCGS: H= 05 16 24.9, 81.5N, 3.9W, h= 33 km. North of Svalbard. M= 5.3 SD 1.0 /CGS/.
- 8 eZ Pn 08 30 15, eZ Sn 08 31 34, eZ Sg 08 32 /00/, D= 670 km, BCIS: H= 08 28 34 /DECM/, 41.5N, 20.7E, Albania-Yugoslavia border region. I = VI- VII, felt on the region of Debar, M= 4.0 /SKOPJE/.
- 8 iZ Pn 10 11 59.4, iZ Sn 10 13 14.2, D= 700 km, BCIS: H= 10 10 27 /DECM/, 41.5N, 20.7E, Albania-Yugoslavia border region. I = VI- VII MCS, felt on the region of Debar. M= 4.0 /Skopje/.
- 9 Z P 02 42 /00/, USCGS: H= 02 28 58.9, 33.1N, 116.1W, h= 20 km, Southern California 33° 08.8'N, 116° 07.5'W, hypocenter by Pasadena. Minor damage, Rock slides reported in Anza - Borrego desert State Park area. Surface cracks and offsets indicate faulting in the area. Felt throughout southern California, parts of Nevada and Arizona. M= 6.5/PAS/, 6.8- 7.2/BRK/, 6 1/4 /GOL/, 6.1 /CGS/.
- 9 eZ PKIKP 11 46 13.2, iZ PKHKP 11 46 19.5, iZ PKP2 11 46 23.4, D= 16650 km. USCGS: H= 11 27 39.0, 17.8S, 178.2W, h= 650 km. Fiji Islands region. M= 5.2 SD 0.8 /CGS/.
- 9 eZ Pn 19 08 43, eZ Sn 19 09 /22/, /D= 360 km/, BCIS: H=19 07 46 /DECM/, 44.7N, 10.4E, Apennins, south of Parma.
- 10 eZ PKP1 18 51 50, iZ PKP2 18 51 54.7, USCGS: H= 18 32 09.6, 22.6S, 171.5E, h= 60 km, Loyalty Islands region. M= 5.2- 5.6/BRK/, 5.1 SD 1.0 /CGS/.
- 10 eZ PKP 19 00 06, USCGS: H= 18 40 21.6, 22.7S, 171.5E, h=65 km, Loyalty Islands region. M= 4.7 SD 1.3 /CGS/.
- 10 eZ 20 51 10, traces.
- 12 eZ PKIKP 16 54 34, eZ PKHKP 16 54 41, eZ pPKP 16 56 44, USCGS: H= 16 35 38.3, 20.3S, 177.9W, h= 459 km, Fiji Islands region. M= 4.6 SD 0.6 /CGS/.
- 13 eZ /P/ 00 51 04, weak.
- 13 eZ P 01 26 46, USCGS: H= 01 15 32.3, 19.ON, 66.üW, h= 51 km, Puerto Rico. Felt at San Juan. M= 5.1 SD 1.1 /CGS/.
- 13 eZ PKP 18 02 56, USCGS: H= 17 43 07, 22.9 S, 171.8E, h= 33 km., Loyalty Islands region. M= 4.5 SD 0.8 /CGS/.
- 14 eZ P 08 49 56, USCGS: H= 08 37 12.2, 33.4N, 141.4E, h= 44 km. Off east coast of Honshu, Japan. M= 5.4 SD 0.9 /CGS/.
- 14 eZ+ P 13 17 51, USCGS: H= 13 05 08.0, 33.4N, 141.4E, h=41

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- /cont./ km. Off east coast of Honshu, Japan. M= 5.4 SD 1.0 /CGS/.
- 14 eZ PKIKP 15 05 58, Z PKHKP 15 06 /00/, eZ PKP2 15 06 /00/, USCGS: H= 14 47 14.9, 17.5S, 178.8W, h= 550 km, Fiji Island region. M= 4.6 SD 0.6 /CGS/.
- 15 eZ Pn 01 28 42, eZ /Sn/ 01 30 37, /D= 1100 km.
- 15 eZ PKP 03 27 19, USCGS: H= 03 08 34.7, 6.1S, 154.9E, h=189 km. Solomon Islands. M= 4.9 SD 1.0 /CGS/.
- 16 eZ 13 41 37, traces.
- 17 eZ Sg 07 11 20, weak.
- 17 eZ P 09 16 08, BCIS: H= 09 12 02 /DECM/, 35.2N, 3.7W, Alboranean Sea, near coast of Morocco. Felt at Melilla and on the region of Al-Hoceima /35°14'N, 3°56'W/, MLH= 4.9 /Pruhonice/.
- 17 eZ Pn 09 22 /LL/, eZ 09 22 35, iZ Sg 09 23 12.6.
- 17 eZ P 12 02 26, USCGS: H= 11 51 17.8, 5.1S, 68.4E, h= 33 km. Chagos Archipelago region. M= 5.0 SD 0.9 /CGS/.
- 17 eZ- P 13 19 18, eZ pP 13 19 45, eZ PP 13 21 04, D= 4700 km, USCGS: H= 13 11 26.2, 36.4N, 71.5E, h= 113 km. Afghanistan - USSR border region, M= 5.2 SD 0.9 /CGS/.
- 17 eZ Pg 17 04 05, iZ Sg 17 04 11.1, D= 50 km. Felt at Novo Mesto 3° MCS.
- 18 eZ Pn 03 09 36, eZ Sn 03 10 52, D= 720 km. BCIS: H= 03 08 04 /DECM/, 41.5N, 20.5E, Albania-Yugoslavia border region. I = VI-VII° Felt on the region of Debar/VI° and Ohrid/V°/, M= 4.4 /Skopje/.
- 18 eZ PKP 10 18 22, eZ 10 18 56, USCGS: H= 09 58 53, 25.5S, 177.9W, h= 230 km. South of Fiji Islands, M= 5.1 SD 0.9 /CGS/.
- 18 eZ Pg 10 54 28, iZ Sg 10 54 35.5, D= 60 km, weak.
- 18 eZ Pn 19 39 32, eZ Sn 19 40 32, D= 560 km. BCIS: H= 19 38 17 /DECM/, 44.1N, 8.0E, Ligurian Apennins. Felt considerable in Italy at Alasio, Imperia, San Remo Ventimiglia. Felt in France, at Menton IV°, at Monaco III°, at Nice II°. MLH=3.9 /Pruhonice/.
- 19 eZ P 08 21 32, USCGS: H= 08 08 22.2, 42.7S, 16.0W, h= 33km. South of Atlantic Ridge. M= 5.2 SD 0.9 /CGS/.
- 19 eZ P 09 17 36, eZ PP 09 21 17, D= 9900 km. USCGS: H= 09 04 27.3, 42.6S, 16.0W, h= 33 km. South Atlantic Ridge. M= 5.6 SD 1.1 /CGS/.

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- 20 eZ P 09 50 26, USCGS: H= 09 44 08.6, 38.3N, 26.6W, h= 33 km Azores Islands. Felt at Angra do Heroismo, M= 4.9 SD 0.9 /CGS/.
- 20 eZ P 10 24 19, BCIS: H= 10 18 02 /DECM/, 38.3N, 26.6W, Azores. Felt at Angra do Heroismo. MLH= 5.4/Pruhonice/. USCGS: H= 10 18 01.1, 38.3N, 26.6E, h= 33 km, Azores. Felt at Angra do Heroismo. M= 5.1 SD 1.3 /CGS/.
- 20 eZ PKP 12 44 53, USCGS: H= 12 25 10.1, 15.7S, 172.6W, h=30 km, Samoa Islands region. Felt at Apia. M= 6/PAS/, 5.8-6 /BRK/, 6-6 1/4/GOL/, 5.7 SD 1.1 /CGS/.
- 20 iZ Pg 13 59 44, iZ Sg 13 59 58.0, D= 135 km.
- 20 iZ P 20 01 39, USCGS: H= 19 50 31, 19.9S, 11.8W, h= 33 km. South Atlantic Ridge. M= 4.9 SD 1.1 /CGS/.
- 21 iZ+ P 08 46 30.3, eZ 08 49 39, USCGS: H= 08 34 03.5, 38.6N, 143.0E, h= 42 km. Off east coast of Honshu, Japan. M= 5.3 SD 0.9 /CGS/.
- 21 eZ 14 03 37, eZ 14 04 11, traces.
- 21 eZ P 17 03 17, eZ 17 04 24, traces. USCGS: H= 16 43 17.2, 56.4S, 15.8.0E, h= 27 km. Macquarie Island region. M= 5.8 SD 1.2 /CGS/.
- 21 eZ- Pn 21 11 21, eZ Sn 21 12 34, BCIS: H= 21 09 50 /DECM/, 40.0N, 14.9E, h= 330 km. Tyrrhenian Sea. Near coast of Italy. USCGS: H= 21 09 47.0, 39.8N, 14.9E, h= 311 km. Tyrrhenian Sea. M= 4.3 SD 1.2 /CGS/.
- 22 eZ Pn 15 49 44, eZ /Sn/ 15 50 30, D= 420 km.
- 23 eZ 00 30 34, eZ 00 30 44, traces.
- 23 eZ Pn 07 17 28, eZ Sn 07 18 41, D= 710 km.
- 23 iZ Pg 08 49 07.3, iZ Sg 08 49 10.6, D= 28 km. Local, weak.
- 23 eZ /Pn/ 10 31 23, eZ 10 32 11, traces.
- 23 eZ 12 46 14, eZ 12 46 32, traces.
- 23 Z P 12 47 /00/, eZ PP 12 48 45, eZ S 12 52 38, D= 4300 km. USCGS: H= 12 39 47.3, 27.7N, 56.7E, h= 52 km. Southern Iran. M= 5.1 SD 1.1 /CGS/.
- 23 eZ 17 12 48, eZ 17 13 46, traces.
- 23 iZ- P 20 40 53.7, eZ PP 20 43 42, USCGS: H= 20 29 14.5, 58.7N, 150.0W, h= 23 km. Gulf of Alaska. Felt on Kodiak. M= 6-6 1/4 /PAS/, 5.1-6.1 /BRK/. 6-6 1/4 /GOL/, 6.3 SD 0.9 /CGS/.

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- 23 eZ /P/ 21 08 15, traces.
- 23 eZ /P/ 21 27 20, weak.
- 24 eZ P 03 15 26, USCGS: H= 03 04 17.3, 5.1S, 68.3E, h= 33km. Chagos Archipelago region. M= 4.9 SD 1.3 /CGS/.
- 24 eZ /Pn/ 08 13 17, eZ 08 14 07.
- 24 iZ P 08 20 29.7, eZ S 08 22 22, D= 1100 km. BCIS: H= 08 18 03 /DECM/, 39.3N, 24.9E, Aegean Sea. MS= 5.8 /Athens/, MLH= 5.8 /Strasbourg/, 5.4 /Pruhonice/, 5.0 /Collm/. USCGS: H= 08 18 02.5, 39.3N, 24.9E, h= 17 km. Aegean Sea. Felt on Ayios Efstratios and in northwestern Anatolia. M= 5.2 SD 1.0 /CGS/.
- 24 eZ PKP 14 17 08, USCGS: H= 13 59 14.5, 4.6S, 149.4E, h=565 km. Bismack-Sea. M= 5.0 SD 1.1 /CGS/.
- 24 eZ P 19 42 57, USCGS: H= 19 31 49.5, 5.0S, 68.4E, h= 33km. Chagos Archipelago region. M= 5.2 SD 1.1 /CGS/.
- 25 iZ Pn 04 29 26.0, iZ 04 30 52.9, BCIS: H= 04 27 28 /DECM/, 39.0N, 20 1/4E, Ionian Sea. ML= 3.7 /Athens/.
- 25 eZ 06 43 44, eZ /Sn/ 06 44 05, traces.
- 25 eZ Pn 07 41 28, iZ Pg 07 41 33.5, iZ Sn 07 41 55.2, iZ Sg 07 42 04.4, D= 270 km. BCIS: H= 07 40 53 /DECM/, 46.9N, 11.7E, Tyrol, Austria- Italy border region.
- 25 eZ Pn 10 36 /30/, eZ Sn 10 38 06, D= 1040 km.
- 25 eZ Pn 18 28 33, iZ 18 28 39.5, iZ Sg 18 29 20.4, D= 320km. BCIS: H= 18 27 40 /DECM/, 46.6N, 9.8E, Grissons, Switzerland.
- 25 eZ PKP 21 45 18, iZ PKP2 21 45 23.8, USCGS: H= 21 25 36.1, 15.2S, 173.1W, h= 33 km. Tonga Islands. M= 5.2 SD 1.3 /CGS/.
- 26 eZ PKP 01 02 18, eZ PKP2 01 02 26, USCGS: H= 00 42 34, 15.3 S, 173.1W, h= 33 km. Tonga Islands, M= 5.3 SD 1.1 /CGS/.
- 26 eZ P 03 04 23, BCIS: H= 02 58 19/DECM /, 35.2N, 50.2E, Northeastern Iran, south of Kazwin.
- 26 eZ Pn 12 27 /14/, eZ 12 29 05.
- 26 eZ+ P 13 24 49, USCGS: H= 13 15 23.3, 0.2S, 18.2W, h= 33 km, Central Mid-Atlantic Ridge. M= 5.2 SD 1.3 /CGS/.
- 26 eZ P 13 33 38, USCGS: H= 13 21 13.0, 37.4N, 141.4E, h= 67 km. Near east coast of Honshu, Japan. M= 5.2 SD 1.1 /CGS/.
- 26 eZ Pn 13 38 46, eZ /Sn/ 13 40 27, /D= 990 km./

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- 26 eZ P 15 12 41, Z PP 15 16 /00/, D= 9500 km. USCGS: H= 15 00 00.1, 37.3N, 116.5W, h= 0 km. Southern Nevada 37°17' 43.54"N, 116°27'20.5"W, Nevada Test Site Box Car. Shot elevation 783.3 meters /AEC/. M= 6.4 /BRK/, 6 1/2 /GOL/, MB= 6.3, MS= 5.4 /CGS/.
- 27 eZ 13 40 49, Z Sn 13 41 /00/, traces.
- 27 eZ PKP 14 16 35, USCGS: H= 13 57 50.1, 21.2S, 179.2W, h= 670 km. Fiji Islands region. M= 4.5 SD 0.9 /CGS/.
- 29 Z Pg 13 31 /00/, iZ Sg 13 31 02.1, weak, local.
- 29 Z P 17 07 /00/, BCIS: H= 17 01 51 /DECM/, 39.3N, 44.6E, Azerbaijan Iranian. South of Mount Ararat. Damage and victims /135 killed/ in Maku region /39°20'N, 44°33'E/. Felt in eastern Turkey and in USSR, MSH= 6.1/Collm/, MLH= 5.6 /Collm/, MPV= 5.5/Bensberg/, MLH= 5.4/Pruhonice/, 5.3 /Praha/. USCGS: H= 17 01 57.6, 32.2N, 44.3E, h= 34 km. N.W. Iran-USSR border region. Felt in northwestern Iran, eastern Anatolia and southwestern Iran, Armenia SSR. 38 killed, 600 injured and extensive damage in the Maku area of Iran. M= 5.3 SD 1.1 /CGS/.

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- 1 eZ P 08 56 15, USCGS: H= 08 43 47.4, 38.6N, 143.1E, h= 36 km. Off east coast of Honshu, Japan. Felt in norther Honshu. M= 5.3 SD 0.8 /CGS/.
- 2 Z P 05 41 /00/, eZ pP 05 41 21, eZ PP 05 43 42, D= 8000km, USCGS: H= 05 29 38.2, 18.8N, 69.6W, h= 82 km. Dominican Republic region. Felt in San Juan an Cayey, Puerto Rico. M= 5.8 SD 0.9 /CGS/.
- 2 eZ /Sn/ 08 09 36, traces.
- 2 eZ 08 26 48, eZ 08 27 24, traces.
- 2 eZ PKP 13 22 07, USCGS: H= 13 03 14.7, 17.6, 178.7W, h= 504 km. Fiji Islands region. M= 4.1 SD 0.9 /CGS/.
- 2 eZ Pn 13 40 45, iZ 13 41 02.7, iZ Sn 13 41 45.5, iZ Sg 13 42 09.5, D= 570 km.
- 2 eZ 13 50 57, eZ 13 50 56, eZ 13 51 14, traces.
- 2 eZ Pn 17 44 /12/, eZ 17 46 05, weak.
- 2 eZ PKP 23 44 26, eZ PP 23 45 16, D= 12300 km. USCGS: H= 23 26 03.6, 6.4S, 129.9E, h= 128 km. Banda Sea. M= 5.5 SD 1.0 /CGS/.
- 3 eZ Pn 03 30 17, Z Sn 03 32 /00/, D= 1000 km. BCIS: H= 03

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- /cont./ 28 03 /DECM/, 38 1/2N, 20 1/4E, Ionian Sea. ML=3.6 /Athens/.
- 3 eZ Pn 03 58 44, eZ Sn 04 00 28, D= 1000 km.
- 3 eZ P 05 45 11, eZ pP 05 45 39, USCGS: H= 05 32 45.7, 25.1N, 124.6E, h= 98 km. Northeast of Taiwan. M= 5.8 SD 1.1 /CGS/.
- 3 eZ 21 48 11, eZ/Sn/ 21 48 45, traces.
- 4 eZ Pn 15 34 55, eZ Sn 15 35 41, D= 440 km. BCIS: H= 15 33 16/DECM/. 44 1/2N, 9 1/4E, Ligurian Apennin.
- 5 iZ Pg 04 32 34.4, iZ Sg 04 32 52.1, D= 130 km.
- 6 eZ P 09 41 /50/, eZ 09 44 40, eZ 09 45 22, obscured by microseisms. USCGS: H= 09 38 47.1, 40.3N, 28.6E, h= 21 km. Turkey. M= 4.3 DS 1.1 /CGS/.
- 7 eZ P 09 12 39, eZ PP 09 13 19, USCGS: H= 09 00 29.0, 6.7N, 73.0W, h= 168 km. Felt at San Cristobal, Venezuela and Bogota, Colombia. M= 5-5 1/2/BRK/, 5.7 SD 1.1 /CGS/.
- 7 eZ- PKP 12 02 24, USCGS: H= 11 43 31.6, 19.2S, 177.6W, h= 533 km. Fiji Islands region. M= 4.9 SD 0.9 /CGS/.
- 8 eZ PKP 00 34 54, USCGS: H= 00 16 08.7, 17.8S, 178.6W, h= 589 km. Fiji Islands region. M= 4.7 SD 0.7 /CGS/.
- 8 eZ PKP 11 19 55, eZ! 11 20 18, eZ PKP2 11 20 52, USCGS: H= 11 00 07.4, 58.0S, 157.7E, h= 33 km. Macquarie Islands region. M= 5 3/4 /GOL/, 5.7 SD 0.9 /CGS/.
- 8 eZ P 12 29 47, eZ /PP/ 12 32 39, USCGS: H= 12 17 13.4, 43.6 N, 127.9W, h= 33 km. Off coast of Oregon, M= 6 1/4 6 1/2 /PAL/, 6.1 SD 1.1 /CGS/.
- 8 eZ P 22 05 33, eZ 22 06 20, USCGS: H= 21 53 02.9, 43.9N, 128.2W, h= 33 km. Off coast of Oregon. M= 5-5 1/4 /GOL/, M= 5.0 SD 1.3 /CGS/.
- 8 eiz- P 22 52 54, eZ pP 22 53 45, eZ/PP/, 22 54 41, USCGS: H= 22 45 08.3, 37.1N, 71.9E, h= 160 km. Afghanistan-USSR, border region. M= 5.1 SD 0.8 /CGS/.
- 9 eZ 01 54 54, eZ Sn 01 56 36, weak.
- 9 eZ P 03 15 33, weak. USCGS: H= 03 03 01.8, 43.4N, 127.0W, h= 33 km. Off coast of Oregon. M= 5-5 1/4/BRK/, 5.2 SD 1.6 /CGS/.
- 9 eZ PKP 07 39 55, USCGS: H= 07 19 55.0, 31.8S, 178.7W, h= 12 km. Kermadec Islands, M= 5.0 SD 1.0 /CGS/.
- 9 eZ P 13 06 /00/, USCGS: H= 12 52 24.4, 5.3S, 81.7W, h= 35

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- /cont./ km. Near coast of Northern Peru. M= 5,6 SD 0.7 /CGS/
- 9 eZ P 14 34 41, USCGS: H= 14 22 08.7, 34.2N, 136.8E, h= 18km. Southern Honshu, Japan. M= 4.9 SD 1.1 /CGS/.
- 10 eZ PKKP 06 17 39, eZ PKKP 06 17 43, eZ PKP2 06 17 50, D= 16600 km. USCGS: H= 05 58 07.2, 22.3S, 171.6E, h= 123 km. Loyalty Islands region. M= 4.9 SD 1.2 /CGS/.
- 10 Z P 09 36 /00/, USCGS: H= 09 23 31.5, 24.3N, 121.8E, h= 21 km. Taiwan. M= 4.8 SD 1.0 /CGS/.
- 10 eZ P 15 21 51, USCGS: H= 15 09 20.6, 24.3N, 121.9E, h= 26 km. Taiwan. M= 4.8 SD 1.1 /CGS/.
- 10 eZ P 20 45 43, USCGS: H= 20 33 13.2, 24.3N, 122.0 E, h= 20 km. Taiwan, M= 4.9 SD 1.3 /CGS/.
- 10 eZ PKKP 23 08 04, eZ PKKP 23 08 10, iZ PKP2 23 08 25.9, D= 16900 km. USCGS: H= 22 48 36.7, 21.2S, 176.6E, h= 203 km. Fiji Islands region. M= 5.1 SD 0.9 /CGS/.
- 11 eZ 03 35 58, eZ /Sn/ 03 37 04, eZ Sg 03 37 48, weak.
- 11 Z Pg 05 47 /00/, iZ Sg 05 47 05.5, D= 60 km.
- 11 eZ Pg 08 28 41, iZ Sg 08 28 46.6, D= 60 km.
- 11 eZ P 12 18 14, USCGS: H= 12 12 41, 41.0N, 49.8E, h= 16 km. Caspian Sea. M= 5.0 SD 0.8 /CGS/.
- 11 eZ PKP1 15 52 31, eZ PKP2 15 52 50, D= 13800 km. USCGS: H= 15 33 41.2, 6.4S, 147.3E, h= 76 km. East New Guinea region. M= 5.5 SD 1.0 /CGS/.
- 11 eZ P or PMP 23 18 09.
- 12 eZ Pn 14 11 31, eZ 14 11 45, eZ Sn 14 12 47, eZ Sg 14 13 30, D= 710 km. Felt on the region of Debar.
- 12 eZ 18 27 47, eZ Sn 18 28 49, Felt on the region of Debar.
- 12 eZ PKKP 18 58 52, eZ PKP2 18 58 56, eZ 19 01 05, D= 16200 km. USCGS: H= 18 39 10.8, 19.0S, 169.6E, h= 16 km. New Hebrides Islands. M= 5.1 SD 1.1 /CGS/.
- 12 eZ PKKP 19 16 04, eZ PKP2 19 16 10, eZ 19 16 18, D= 16200 km. USCGS: H= 18 56 22.8, 19.0S, 169.7E, h= 5 km. New Hebrides Islands region. M= 4.6 SD 1.1 /CGS/.
- 13 iZ+ P 02 50 54.5, eZ PP 02 51 11, eZ S 02 54 30, D= 2100km. BCIS: H= 02 46 35 /DECE/, 43.7N, 40.1E, Northern Caucasus, Sochi region. MSH= 5.9 /Moxa/, MLH= 4.5 /Moxa/. USCGS: H= 02 46 35.7, 43.5N, 40.3E, h= 5 km. Western Caucasus. M= 5.1 SD 0.9 /CGS/.

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- 13 eZ PKHKP 04 15 50, eZ PKP2 04 15 56, D= 16200 km. USCGS: H= 03 56 09.2, 19.0S, 169.6E, h= 13 km. New Hebrides Islands, M= 5.1 SD 1.3 /CGS/.
- 13 iZ Pn 07 29 17.3, iZ Sn 07 29 38.5, D= 190 km.
- 13 eZ Pn 15 41 08, iZ 15 41 30.5, D= 190 km.
- 14 eZ+ P 14 17 19, iZ pP 14 17 59.5, USCGS: H= 14 05 06.0, 29.9N, 129.4E, h= 168 km. Ryukyu Islands. M= 6 1/2 /PAS/, 5.6-6 /BRK/, 5 1/2 /PAL/, M= 5.9 SD 1.1 /CGS/.
- 15 eZ P 08 01 42, eZ! 08 01 44.7, eZ 08 02 37, USCGS: H= 07 51 17.4, 15.9S, 25.9E, h= 33 km. Zambia. Felt. M= 6.1 SD 1.0 /CGS/.
- 15 eZ PKP 15 20 25, eZ PKP2 15 21 08, eZ 15 21 34, eZ PP 15 24 50, USCGS: H= 15 00 29.8, 29.8S, 178.0W, h= 168 km. Ker-madec Islands, M= 6.6-6.9 /BRK/, 5.1 SD 1.6 /CGS/.
- 16 eZNE 01 01 17, eZNE PP 01 04 29; eZNE S 01 11 35, D= 9100 km. USCGS: H= 00 48 55.4, 40.8N, 143.2E, h= 7 km. Off east coast of Honshu, Japan. 47 killed, 281 injured, 18500 homes destroyed or damaged. Aomori Prefecture had the greatest number of casualties and damage. At least 95 ships were lost to tsunami. Tsunami heights in meters: Miyako 4.5, Hachinohe 2.3, Hakodate 1.2, Crescent City, California 1.4, Honolulu 0.2, Attu 0.2, M= 8.2 /PAS/, 7.9 /BRK/, 8.4 /PAL/, 8.0 /GOL/, 7.9 SD 1.4 /CGS/.
- 16 eZ- P 06 49 08, eZ PP 06 52 14, USCGS: H= 06 36 51.0, 41.1 N, 143.0E, h= 35 km. Hokkaido, Japan region. M= 5.7 SD 0.9 /CGS/.
- 16 eZ P 08 01 16, USCGS: H= 07 49 01.5, 41.3N, 142.6E, h= 38 km. Hokkaido, Japan region. M= 5.1 SD 0.8 /CGS/.
- 16 eZ P 08 32 15, USCGS: H= 08 19 56.7, 41.1N, 142.8E, h= 22 km. Hokkaido, Japan region. M= 4.8 SD 0.9 /CGS/.
- 16 eZ P 08 58 59, USCGS: H= 08 46 39.9, 40.9N, 143.0E, h= 28 km. Off east coast of Honshu, Japan. M= 4.8 SD 1.1 /CGS/.
- 16 eZNE- P 10 51 16, eZ PP 10 54 24, eZNE S 11 01 25, eZNE M 11 30 35, USCGS: H= 10 39 01.6, 41.5N, 142.7E, h= 33 km. Hokkaido, Japan region. Felt. Hachinohe recorded 1.2 meters tsunami. M= 7 /PAS/, 7.3 /BRK/, 7 /PAL/. D= 91 00 km.
- 16 eiZ P 12 21 50.2, eZ PP 12 24 58, D= 9100 km. USCGS: H= 12 09 31.9, 41.1N, 143.0E, h= 24 km. Hokkaido, Japan region. M= 5.1 SD 0.9 /CGS/.
- 16 Z P 14 02 /OO/.
- 16 eZ P 14 15 41, USCGS: H= 14 02 40.7, 41.4N, 142.3N, h= 37 km. Hokkaido, Japan region. M= 4.8 SD 0.8 /CGS/.

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- 16 eZ P 15 04 48, USCGS: H= 14 52 32.0, 41.4N, 143.5E, h= 36 km. Hokkaido, Japan region. M= 4.7 SD 1.0 /CGS/.
- 16 iZ+ P 16 26 10.0, eZ 16 31 15, USCGS: H= 16 13 45.1, 39.7N, 143.6E, h= 29 km. Off coast of Honshu, Japan. M= 6.4-6.6 /BRK/, 5.6 SD 1.0 /CGS/.
- 16 eZ P 16 34 19, USCGS: H= 16 21 53.4, 39.7N, 143.6E, h= 33 km. Off coast of Honshu, Japan. M= 4.8 SD 1.0 /CGS/.
- 16 eZ P 17 40 31, USCGS: H= 17 28 13.0, 41.4N, 143.0E, h= 33 km. Hokkaido, Japan region. M= 5.2 SD 1.0 /CGS/.
- 16 eZ P 18 55 35, eZ PP 18 58 44, D= 9100 km. USCGS: H= 18 43 21.0, h= 59 km. Near east coast of Honshu, Japan. M= 5.7 SD 0.9 /CGS/.
- 16 Z P 19 29 /OO/, eZ PP 19 32 07, D= 9100 km. USCGS: H= 19 16 47.2, 41.3N, 142.4E, h= 42 km. Hokkaido, Japan region. M= 5.5-5.8 /BRK/, MB= 5.6, MS= 5.4 SD 1.0 /CGS/.
- 16 eZ /P/ 20 21 09, eZ 20 21 31, traces.
- 16 eZ- P 20 34 30, eZ 20 37 38, D= 9100 km. USCGS: H= 20 22 14.9, 41.4N, 147.6E, h= 39 km. Hokkaido, Japan region. M= 5.4-5.7 /BRK/, 5.6 SD 1.1 /CGS/.
- 16 eZ P 21 15 40, USCGS: H= 21 03 24.3, 41.2N, 142.4E, h= 33 km. Hokkaido, Japan region. M= 5.0 SD 1.0 /CGS/.
- 16 eZ P 21 38 10, USCGS: H= 21 25 56.4, 40.9N, 143.0E, h= 30 km. Off coast of Honshu, Japan region. M= 4.8 SD 0.7 /CGS/.
- 16 eZ- P 23 17 16, eZ PP 23 20 31, eZ PPP 22 19, D= 9300 km. USCGS: H= 23 04 54.7, 39.8N, 143.1E, h= 37 km. Off coast of Honshu, Japan. M= 6.4-6.7 /BRK/, 5.8 SD 1.3 /CGS/.
- 17 Z P 06 37 /OO/, traces. USCGS: H= 06 24 35.2, 39.1N, 143.5 E, h= 40 km. Off coast of Honshu, Japan. M= 4.8 SD 0.9 /CGS/.
- 17 eZ 08 11 39, eZ 08 11 56, traces.
- 17 Z 08 16 /OO/, eZ PKHKP 08 16 17, iZ PKP2 08 16 25.4, USCGS: H= 07 57 18, 22.78, 173.0E, h= 91 km. Loyalty Islands region. M= 5.6 - 5.8 /BRK/, 5.0 SD 1.5 /CGS/.
- 17 eZ P 10 55 10, eZ PcP 10 55 18, eZ PP 10 58 39, D= 92 00 km. USCGS: H= 10 42 45.9, 39.6N, 143.4E, h= 33 km. Off east coast of Honshu, Japan, M= 5.3 SD 1.0 /CGS/.
- 17 eZ P 13 14 51, USCGS: H= 13 02 37.3, 41.5N, 142.8E, h= 45 km. Hokkaido, Japan region, M= 5.3-5.4 /BRK/, 5.4 SD 1.0 /CGS/.
- 17 eZ PKIKP 13 23 19, iZ PKHKP 13 23 28, iZ PKP2 13 23 30.4,

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- /cont./ USCGS: H= 13 03 32.3, 22.8S, 173.3E, h= 55 km. Loyalty Islands region. M= 5.7 SD 1.2 /CGS/.
- 17 eZ P 18 29 28.8, eZ PP 18 32 55, D= 9200 km. USCGS: H= 18 17 07.3, 39.6N, 143.0E, h= 32 km. Off east coast of Honshu, Japan. MB= 5.2 MS= 5.3 SD 1.1 /CGS/.
- 19 eZ Pn 07 03 35, eZ /Sn/ 07 05 16,
- 19 eZ Pn 09 39 20, eZ Pg 09 39 52, eZ Sn 09 40 34, D= 700 km, BCIS: H= 09 37 30, 38.7N, 15.5E, Tyrrhenian Sea. Aeolian Islands.
- 19 eZ+ P 22 29 05, eZ PP 22 32 23, D= 9200 km. USCGS: H= 22 16 44.8, 40.9N, 143.2E, h= 18 km. Off east coast of Honshu, Japan, M= 4.9-5.3 /BRK/, 5.1 SD 1.1 /CGS/.
- 20 eZ /Pn/ 00 43 /21/, eZ /Sn/ 00 44 38, weak.
- 20 Z P 02 44 /00/, USCGS: H= 02 31 45.0, 40.4N, 142.3E, h=44 km. Near coast of Honshu, Japan. M= 4.5 SD 0.8 /CGS/.
- 20 eZ P 03 28 44, eZ PcP 03 28 44, eZ PP 03 32 06, D= 9500 km, USCGS: H= 03 16 19.6, 40.0N, 144.0E, h= 31 km, Off east Coast of Honshu, Japan. M= 5.5 SD 0.9 /CGS/.
- 20 eiz+ P 07 05 57.5, iz PcP 07 05 07.5, USCGS: H= 06 53 35.2, 40.3N, 143.7E, h= 33 km. Off east coast of Honshu, Japan, M= 5.2 MS= 5.0 SD 0.8 /CGS/.
- 20 eZ+ PKP 07 33 03, iz PKP2 07 33 49, D= 18 000 km, USCGS: H= 07 13 03.0, 30.9S, 176.3W, h= 22 km, Kermadec Islands region, M= 5.4- 5.8 /BRK/, 6.0 SD 1.2 /CGS/.
- 20 eZ /Pn/ 09 58 35, eZ 09 59 07,
- 20 P 10 46 21, USCGS: H= 10 34 16.8, 48.8N, 154.7E, h= 40 km. Kurile Islands. M= 5.4 SD 1.2 /CGS/.
- 21 eZ+ P 08 32 15, USCGS: H= 08 20 00.9, 44.9N, 150.2E, h= 33 km, Kurile Islands region. M= 5.7 MS= 6.2 SD 1.1 /CGS/.
- 22 eZ P 11 04 07, eZ PcP 11 04 15, eZ PP 11 07 12, D= 9000 km, USCGS: H= 10 51 53.3, 41.5N, 142.8 E, h= 40 km, Hokkaido, Japan region. M= 6.2- 6.6 /BRK/, 5 L/2- 5 3/4 /GOL/, 5.9, MS= 6.3 SD 1.0 /CGS/.
- 22 eZ 18 26 32, traces.
- 22 iz+ P 19 41 44.3, iz 19 41 57.1, USCGS: H= 19 29 25.7, 40.2 N, 142.3E, h= 40 km. Near coast of Honshu, Japan, M= 5 3/4- 6 /PAL/, 5.3 Ms= 5.5 SD 1.0 /CGS/.
- 23 eZ PKP 17 44 14, iz 17 44 28.7, iz PKP2 17 45 08, D= 18100 km, USCGS: H= 17 24 15.7, 41.7S, 171.9E, h= 21 km. South

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- /cont./ Island, New Zealand, one dead, 14 injured, extensive damage on northwest coast of South Island, felt throughout New Zealand. M= 6.6- 7.0 /BRK/, 7 1/4- 7 1/2 /PAL/, 7.0 /GOL/, 6.1 MS= 7.1 /CGS/.
- 24 eZ /Pn/ 07 43 31, iz 07 44 05.1, weak.
- 24 Z /P/ 10 07 /00/, ez /Sn/ 10 07 31, Z Sg 10 08 /00/,
- 24 eZ+ P 14 18 42, eZ PP 14 21 46, eZ S 14 28 55, D= 9000 km, USCGS: H= 14 06 24.2, 40.9N, 143.0E, h= 38 km, Off east coast of Honshu, Japan. M= 6 1/4- 6 1/2 /PAL/, 5.8 MS= 6.2 SD 1.2 /CGS/.
- 24 eZ- P 15 56 58, eZ pP 15 59 06, iz PKIKP 16 01 10.0, D= 11600 km, USCGS: H= 15 43 54.2, 6.8S, 118.9E, h= 609 km, Flores Sea. M= 6.0 SD 1.2 /CGS/.
- 24 eZ PKP 18 01 52, eZ PKP2 18 02 45, eZ PP 18 05 30, D=18100 km, USCGS: H= 17 40 54, 41.9S, 171.8E, h= 27 km. South Island, New Zealand. M= 5.3 SD 1.5 /CGS/.
- 24 eZ Pb 20 32 44, eZ /Sn/ 20 33 43, /D= .690 km./.
- 24 eZ PKP 21 17 26, eZ PKP2 21 18 18, USCGS: H= 20 57 27.3, 41.8S, 172.0E, h= 33 km. South Island, New Zealand. M= 5.7 SD 1.4 /CGS/.
- 24 eZ P 21 49 11, USCGS: H= 21 37 11.2, 54.2N, 169.3E, h= 5 km, Komandorsky Islands region. M= 5.3 SD 1.0 /CGS/.
- 24 Z P 23 59 /00/, USCGS: H= 23 47 04.0, 10.9N, 69.4W, h= 33 km, Venezuela. Felt at Churuquara. M= 4.8 SD 1.6 /CGS/.
- 25 eZ P 00 34 11, USCGS: H= 00 29 25.9, 40.8N, 42.0E, h= 9km, Turkey, M= 4.6 SD 0.8 /CGS/.
- 25 eZ Pg 02 32 46, eZ Sg 02 33 03, D= 145 km.
- 25 eZ P 12 05 18, USCGS: H= 11 52 57.4, 40.1N, 143.1E, h= 37 km. Off coast of Honshu, Japan. M= 5.2 MS= 5.3 SD 1.0 /CGS/.
- 25 eiz P 14 31 21, USCGS: H= 14 18 52, 38.9N, 143.0E, h= 30km, Off east coast of Honshu, Japan, M= 5.1 SD 2.2 /CGS/.
- 25 iz Pg 15 24 48.7, iz Sg 15 24 50.1, D= 15 km. Local, very weak.
- 26 eZ PKP 00 10 08, USCGS: H= 23 49 16.7, 42.0S, 171.8E, h=28 km. South Island, New Zealand. M= 5.1 SD 1.2 /CGS/.
- 26 eZ /Pn/ 07 17 18, Z 07 18 /00/,
- 26 iz Pn 13 34 37.8, eZ 13 35 58,

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- 26 eZ+ P 17 53 58, USCGS: H= 17 41 40.1, 40.1N, 143.1E, h= 49 km. Near east coast of Honshu, Japan, M= 4.6 SD 1.1 /CGS/.
- 26 eZ PKP 20 39 28, USCGS: H= 20 19 43, 18.5S, 176.1E, h= 33 km. Fiji Islands region. M= 4.9 SD 1.5 /CGS/.
- 27 eZ 18 41 45, eZ /Sn/ 18 42 22, traces.
- 28 eZ PKP 02 01 27, USCGS: H= 01 42 28.3, 6.3S, 151.4E, h= 41 km. New Britain region, M= 4.7 SD 1.0 /CGS/.
- 28 eZ Pn 05 24 41, eZ Sn 05 25 39, D= 560 km.
- 28 eZ PKP 09 26 29, eZ PKP2 09 27 15, USCGS: H= 09 06 29.9, 30.9S, 177.8W, h= 33 km. Kermadec Islands region. M= 5.8-6.0 /BRK/, 6- 6 1/4 /PAL/, 5.5 MS= 5.7 SD 1.1 /CGS/.
- 28 eZ P 13 42 09, iZ PKP 13 46 /OO/, iZ PP 13 47 14.4, eZ PFP 13 49 34, eZ PS 13 56 57, eZ SS 14 03 46, D= 12300 km. USCGS: H= 13 27 18.7, 2.9S, 139.3E, h= 65 km, Near N. coast of west New Guinea. Felt throughout the east and west Sepik Districts of New Guinea and the western District of Papua. M= 7 /PAS/, 7.0- 7.5 /BRK/, 7 1/2 /PAL/, 6.1 SD 1.1 /CGS/.
- 28 Z Pn 21 34 /OO/, eZ /Sn/ 21 35 50, eZ 37 13, D= 1080 km.
- 28 iZ P 22 42 09.4, eZ PP 22 45 13, D= 8890 km, USCGS: H= 22 29 56.8, 52.2N, 172.8E, h= 15 km, Near Islands, Aleutian Islands, M= 4.3- 4.7 /BRK/, 5 3/4 /PAL/, 5 1/2- 5 3/4 /GOL/, MB= 5.6, MS= 5.7, SD 0.9 /CGS/.
- 29 iZ Pg 12 52 32.7, iZ Sg 12 52 35.8, D= 25 km,
- 29 eZ Pn 17 30 06, eZ /Sn/ 17 32 04, /D= 1180 km/.
- 29 eZ PKHKP 17 41 07, eZ PKP2 17 41 19, eZ PP 17 44 27, USCGS: H= 17 21 52.9, 18.6S, 169.0E, h= 214 km, New Hebrides Islands. Felt at Port Vila. M= 5.1 SD 1.0 /CGS/.
- 30 iZ! P 01 17 30.5, eZ PP 01 18 48.0, eZ PcP 01 19 56, D=3900 km. USCGS: H= 01 10 30.0, 27.8N, 54.0E, h= 27 km. Southern Iran, M= 5.2 SD 1.1 /CGS/.
- 30 eZ PP 05 39 22, USCGS: H= 05 23 48.9, 44.7N, 150.3E, h=49 km. Kurile Islands region. M= 5.4- 5.8 /BRK/, 5.5, MS= 5.8 SD 1.0 /CGS/.
- 30 eZ P 17 43 51, eZ S 17 46 35, D= 1670 km, BCIS: H= 17 40 26 35.4N, 28.0E, h= 100 km, Eastern Mediterranean Sea. SE of Rhodes. MLH= 5.9 /Collm/, MSH= 5.4 /Collm/.
- 30 iZ Pn 18 16 16.6, iZ Sn 18 16 46.7, D= 270 km, BCIS: H= 18 15 42, 45°0N, 17°2E, Yugoslavia. USCGS: H= 18 15 42 45.1N, 17.1E, h= 33 km, Yugoslavia, M= 5.8 SD 1.1 /CGS/.

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- 30 eZ P 19 59 40, eZ 20 02 26, BCIS: H= 19 53 02, 29.7N, 51.4E /DECM/, Central Iran /Farsistan/. USCGS: H= 19 53 06.0, 29.7N, 51.3E, h= 32 km, Southern Iran, M= 5.2 SD 1.1 /CGS/.
- 31 eZ /Pg/ 12 17 46, Z Sg 12 18 /OO/, /D= 120 km/.
- 31 eZ 13 10 40, eZ Sn 13 10 55,
- 31 eZ /Pn/ 23 17 04, eZ Sn 23 17 48, /D= 400 km/.
- 31 eZ 18 39 42, eZ 18 39 49.

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- 1 eZ 08 14 59, eZ 08 15 10.
- 1 eiZ+ P 10 44 06.8, USCGS: H= 10 31 49.3, 40.2N, 142.3E, h= 50 km. Near east coast of Honshu, Japan. M= 5- 5.4 /BRK/, 5.4 SD 1.0 /CGS/.
- 2 eZ 00 44 00, eZ /Sn/ 00 44 46,
- 2 eZ PKP 01 30 13, USCGS: H= 01 11 19.4, 177.7W, 18.5S, h= 559 km, Fiji Islands region. M= 4.3 SD 1.0 /CGS/.
- 2 iZ Pg 01 37 22.6, D= 96 km. BCIS: H= 01 37 00 /DECM/, 44.8 N, 15.4E, Dinarides, Yugoslavia.
- 2 iZ Pg 01 46 48.4, iZ Sg 01 46 59.3, D= 90 km. Dinarides, aftershock.
- 2 eZ /Pg/ 06 04 23, iZ Sg 06 04 34.5, D= 90 km. Dinarides, aftershock.
- 2 eZ P 08 37 35, eZ 08 37 45.
- 2 iZ Sn 17 26 13.5,
- 3 eZ- PKP 09 36 20, USCGS: H= 09 17 46.2, 5.4S, 147.0E, h= 190 km, east New Guinea region. M= 5.6 SD 0.9 /CGS/.
- 3 eZ Sn 10 44 29, BCIS: H= 10 41 00 /DECM/, 35.2N, 27.6E, Mediterranean Sea, east of Creete, ML= 4.3 /Athens/.
- 3 eZ+ P 14 28 13, USCGS: H= 14 16 20.0, 45.7N, 148.3E, h= 160 km. Kurile Islands, M= 5.4 SD 1.0 /CGS/.
- 3 eZ 19 41 42, eZ /Sn/ 19 42 48.
- 4 eZ P 06 56 04, BCIS: H= 06 50 02 /DECM/, 32.7N, 48.2E, Westrn Iran /Western Luristan/. USCGS: H= 06 50 06.6, 32.7 N, 48.3E, h= 40 km, Western Iran, M= 5.2 SD 1.0 /CGS/.

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- 4 eZ /P/ 17 27 42,
- 5 eZ PKP 13 04 09, iZ 13 04 14.5, eZ PKP2 13 05 03, USCGS: H= 12 43 22, 41.8S, 172.0E, h= 66 km. South Island, New Zealand. M= 5.2 SD 1.3 /CGS/.
- 5 eZ PKHKP 22 25 22, eZ PKIKP 22 25 39, USCGS: H= 22 06 26.9, 4.5S, 153.1E, h= 69 km. New Ireland region. M= 5.0 SD 0.7 /CGS/.
- 5 eZ P 23 17 47, eZ PcP 23 17 58, USCGS: H= 23 05 36.8, 52.2 N, 174.3E, h= 41 km. Near Islands, Aleutian Islands, M= 5.0 SD 1.0 /CGS/.
- 5 eZ PKP 23 23 20, USCGS: H= 23 04 06, 18.9S, 169.4E, h= 215 km. New Hebrides Islands. M= 4.6 SD 1.1 /CGS/.
- 6 eZ PKP 01 41 50, eZ PKP2 01 41 57, USCGS: H= 01 22 12.3, 17.9S, 167.5E, h= 12 km. New Hebrides Islands. M= 5.0 SD 1.2 /CGS/.
- 6 eZ P 18 33 38, USCGS: H= 18 21 26, 40.6N, 142.3E, h= 81 km. Near coast of Honshu, Japan. M= 4.6 SD 0.9 /CGS/.
- 6 eZ Sn 19 40 29,
- 6 eZ P 19 56 58, USCGS: H= 19 44 07.9, 11.9E, h= 80 km. Luzon, Philippine Islands. Felt at Iba, M= 5.4 SD 1.0 /CGS/.
- 6 eZ P 21 29 29, eZ PP 21 32 35, D= 9000 km, USCGS: H= 21 17 14.4, 41.3N, 142.6E, h= 37 km. Hokkaido, Japan region, M= 5.3 SD 1.1 /CGS/.
- 6 eZ 22 01 54, eZ 22 02 18, traces.
- 6 eZ P 23 04 09, USCGS: H= 22 52 00.4, 44.5N, 148.1E, h= 57km, Kurile Islands. M= 5.1 SD 0.7 /CGS/.
- 7 iZ 00 14 43.6, eZ 00 15 12, weak.
- 7 iZ Pn 09 35 35.0, iZ 09 35 46.3, iZ 09 36 32.2, BCIS: H= 09 34 39 /DECM/, 44.1N, 10.2E, Toscan Apennin, Italy. USCGS: H= 09 34 45, 44.8N, 10.3E, h= 19 km. Northern Italy, M= 4.1 SD 1.3 /CGS/.
- 7 eZ P 12 11 33, eZ PP 12 16 31, D= 12100 km. USCGS: H= 11 57 29.4, 1.8S, 120.1E, h= 20 km. Celebes. M= 7.0 /PAS/, 5.9, MS= 6.7 SD 1.3 /CGS/.
- 7 eZ PKP 18 42 31, USCGS: H= 18 22 47, 17.1S, 176.5W, h= 72 km, Fiji Islands region. M= 4.6 SD 1.1 /CGS/.
- 7 eZ 21 45 19, eZ PKP 21 48 30, USCGS: H= 21 30 50.3, 2.1S, 120.5E, h= 23 km. Celebes. M= 6 1/4 /PAL/, 5.5 MS 5.9 SD 1.3 /CGS/.



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- 8 eZ PKP 00 35 49, eZ PKS 00 39 18, D= 14600 km, USCGS: H=00 16 39.5, 8.8S, 157.6E, h= 33 km, Solomon Islands. Felt at Honiara, M= 5.4 MS= 5.7 SD 1.3 /CGS/.
- 8 eZ- P 00 49 16, Z PP 00 50 46, D= 4100 km, USCGS: H= 00 41 29.0, 87.ON, 51.3E, h= 33 km, North of Franz Josef Land, M= 5.3 SD 1.0 /CGS/.
- 8 eZ P 02 56 58, eZ PcP 02 56 08, USCGS: H= 02 44 37.3, 40.6 N, 143.7E, h= 33 km. Off east coast of Honshu, Japan. M= 4.7 SD 1.3 /CGS/.
- 8 Z P 05 42 /OO/, USCGS: H= 05 29 46.5, 43.4N, 147.1E, h= 43 km, Kurile Islands region. M= 4.8- 5.2 /BRK/, 5 1/4- 5 1/2 /PAL/, 5 1/4- 5 1/2 /GOL/, 5.3 MS= 5.3 SD 1.2 /CGS/.
- 8 eZ Sn 06 42 43, weak. BCIS: H= 06 39 14 /DECM/, 35.ON, 27 1/2E, Mediterranean Sea. East of Crete.
- 8 eZ PKP 13 50 05, USCGS: H= 13 30 20, 21.8S, 169.8E, h= 33 km, Loyalty Islands region.
- 8 eZ P 21 00 58, USCGS: H= 20 48 44, 26.3N, 124.4E, h= 160km, Northeast of Taiwan. M= 5.0 SD 0.9 /CGS/.
- 8 eZ P 21 06 59, USCGS: H= 20 54 45.2, 41.5N, 142.3E, h= 30 km, Hokkaido, Japan region. M= 5.2 SD 1.0 /CGS/.
- 8 eZ P 21 54 41, USCGS: H= 21 42 06.3, 28.4N, 129.6E, h= 33km, Ryukyu Islands. M= 5.2 SD 1.0 /CGS/.
- 8 eZ P 23 37 30, iZ PP 23 41 21.2, D= 10650 km, USCGS: H= 23 24 48.8S, 31.5E, h= 33 km. South of Africa. M= 6 1/4 /PAL/, 5.6 MS= 6.0 SD 1.4 /CGS/.
- 9 eZ P 01 01 47, eZ PP 01 02 15, D= 2700 km. USCGS: H= 00 56 33.9, 39.ON, 46.OE, h= 50 km, N.W. Iran-USSR border region, M= 5.0 SD 1.4 /CGS/.
- 9 eZ P 02 55 05, USCGS: H= 02 36 10, 16.7S, 178.ON, h= 521km, Fiji Islands region, M= 3.8 SD 0.7 /CGS/.
- 10 eZ /P/ 03 28 47,
- 10 eZ P 15 16 18, USCGS: H= 15 06 58, 22.3N, 45.ON, h= 33 km, North Atlantic Ridge. M= 4.7 SD 1.1 /CGS/.
- 11 eZ P 03 13 20, BCIS: H= 03 06 00 /DECM/, 50°ON, 78°OE, Kazakhstan, USSR. Probably explosion. M= 5.4/Uppsala/, MPU= 5.5 /Moxa/, USCGS: H= 03 05 57.8, 49.8N, 78.2E, h=0 km, Eastern Kazakh SSR, M= 5.3 SD 1.2 /CGS/.
- 11 iZ - Pn 17 48 03.4, iZ Pg 17 48 14.7, iZ Sn 17 48 41.4, iZ Sg 17 48 54.8, D= 350 km, BCIS: H= 17 47 11, /DECM/, 43.5N, 16.9E, Dalmatian coast, Yugoslavia. USCGS: H= 17 47 08,

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- /cont./ 43.ON, 17.1E, h= 33 km, Yugoslavia, M= 4.3 SD 1.1 /CGS/.
- 11 eZ 18 22 20, eZ /Sn/ 18 22 53,
- 12 iZ+ P 04 39 53.2, USCGS: H= 04 29 22.6, 24.9N, 91.9E, h=44 km, India-East Pakistan border regio. Felt at Shillong. M= 5.3 SD 1.0 /CGS/.
- 12 eZ 09 07 50, eZ Sn 09 08 36, BCIS: H= 09 05 02 /DECM/, 35.2 N, 27.9E, Mediterranean Sea. East of Crete. ML= 4.4.
- 12 eZ+ P 13 54 13, iZ PcP 13 54 21.6, eNE S 14 04 49, D=9700 km, USCGS: H= 13 41 50.7, 39.5N, 142.7E, h= 44 km, Near east coast of Honshu, Japan. Felt. Slight tsunami reported. M= 7 1/4 /PAS/, 6.6- 6.9 /BRK/, 7 1/4 /PAL/, 6.0 MS 7.0 SD 1.2 /CGS/.
- 12 eZ /Pg/ 14 44 11, iZ Sg 14 44 15.0, D= 30 km.
- 12 eZ /P/ 18 04 26.
- 12 eZ P 22 10 04.5, eZ /PP/ 22 12 55, /D= 8500 km/, USCGS: H= 21 57 41.3, 39.3N, 142.8E, h= 36 km, Near east coast of Honshu, Japan. Felt. M= 5.0- 5.4 /BRK/, 5.7 MS 5.3 SD 1.0 /CGS/.
- 13 eZ P 02 18 08, USCGS: H= 02 05 42.8, 39.4N, 142.8E, h= 25 km. Near east coast of Honshu, Japan, M= 5.1 MS= 4.9 SD 1.0 /CGS/.
- 13 Z P 21 23 /00/, USCGS: H= 21 10 35.4, 39.4N, 142.9E, h= 29 km. Near east coast of Honshu, Japan, M= 5.3- 5.8 /BRK/, 5.5 MS= 5.2 SD 0.9 /CGS/.
- 13 eZ P 23 10 35, USCGS: H= 23 04 00.3, 29.7N, 51.5E, h= 33km. Southern Iran. M= 5.0 SD 1.2 /CGS/.
- 14 eZ PKP 03 08 51, USCGS: H= 02 49 14, 21.5S, 170.5E, h= 94 km, Loyalty Islands region.
- 14 iZ Pg 04 41 47.5, eiZ Sg 04 42 03, D= 130 km.
- 14 eZ+ P 12 05 03, USCGS: H= 11 52 39.7, 39.3N, 142.8E, h= 37 km, Near east coast of Honshu, Japan. M= 5.4 SD 1.1 /CGS/.
- 14 eZ P 12 29 46, USCGS: H= 12 17 27.7, 45.2N, 153.5E, h= 41 km, Kurile Islands region. M= 5.5 SD 1.1 /CGS/.
- 14 eZ P 13 35 36, USCGS: H= 13 23 38.6, 51.7N, 159.3E, h= 33 km, Off east coast of Kamchatka, M= 5.0 SD 1.1 /CGS/.
- 14 eZ PKP 19 24 18, USCGSH= 19 03 27.8, 41.9S, 171.9E, h= 25 km, South Island, New Zealand. M= 5.3 SD 1.4 /CGS/.
- 14 eZ 20 18 40, iZ Sg 20 18 54.0,

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- 14 Z P 23 15 00, USCGS: H= 23 03 05.2, 51.7N, 159.4E, h= 33 km, Off east coast of Kamchatka. M= 4.9 SD 1.4 /CGS/.
- 14 eZ PKP 23 21 15, USCGS: H= 23 01 28, 15.8S, 172.7W, h= 33 km, Samoa Islands region, M= 5.0 SD 0.9 /CGS/.
- 15 eZ P 02 26 35, USCGS: H= 02 14 08.5, 37.3N, 138.6E, h= 9 km, Near west coast of Honshu, Japan. M= 5.0 SD 1.1 /CGS/.
- 15 eZ P or PKP 03 08 10,
- 15 eZ P 03 43 43, eZ PP 03 46 47, D= 8900 km, USCGS: H= 03 31 18.3, 39.3N, 142.8E, h= 25 km, Near east coast of Honshu, Japan, M= 5.4 SD 1.0 /CGS/.
- 15 eZ P 06 11 25, USCGS: H= 05 58 59.0, 27.ON, 126.5E, h= 88 km, East China Sea. M= 5.0- 5.4 /BRK/, 5.7 SD 1.0 /CGS/.
- 15 eZ P 07 21 54, USCGS: H= 07 08 48.1, 5.6N, 82.6W, h= 16km, South of Panama. M= 6.2- 6.6 /BRK/, 6-6 1/4 /GOL/, 6.0, MS= 6.0 SD 1.0 /CGS/.
- 15 eZ P 11 39 29.0, USCGS: H= 11 27 32.9, 51.7N, 159.4E, h= 39 km, Off east coast of Kamchatka. M= 5.4 SD 1.1 /CGS/.
- 15 eZ PKP 13 53 50, eZ PP 13 57 46, USCGS: H= 13 34 14.4, 18.3 S, 167.9E, h= 11 km, New Hebrides Islands. M= 5.5 MS= 6.0 SD 1.5 /CGS/.
- 15 eZ P or PKP 14 12 41,
- 15 eZ Pn 14 32 38, iZ 14 32 57.5, iZ Sn 14 33 15.0, D= 330 km, BCIS: H= 14 31 40 /DECM/, 43.3N, 18.4E, Bosnia, Yugoslavia. USCGS: H= 14 31 32, 42.9N, 18.6E, h= 33 km, Yugoslavia, M= 4.2 SD 1.4 /CGS/.
- 15 eZ 15 47 23, iZ 15 47 52.0, weak.
- 15 eZ PKP 19 51 51, USCGS: H= 19 32 07.6, 21.5S, 169.1E, h=36 km, Loyalty Islands region. M= 4.7 SD 1.6 /CGS/.
- 15 eZ P 20 05 22, USCGS: H= 19 53 09.2, 41.9N, 142.7E, h=33 km, Hokkaido, Japan region. M= 5.2 SD 0.9 /CGS/.
- 16 eZ /Pn/ 03 22 07, eZ Sn 03 22 40, traces. /D= 290 km/.
- 16 eZ P 05 08 40, USCGS: H= 04 55 57, 36.2S, 15.9W, h= 33km. Tristan da Cunha region. M= 5.1 MS= 6.1 SD 1.6 /CGS/.
- 16 eZ 08 38 33.5,
- 16 eZ Pn 13 05 23, eZ Sn 13 06 51, D= 840 km, BCIS: H= 13 03 18 /DECM/, 37.8N, 14.8E, eastern Sicily. M= 4.5/Roma/.
- 16 eZ PP 19 31 50, USCGS: H= 19 14 05, 53.9S, 8.7E, h= 33 km.

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- /cont./ Bouvet Island region. M= 5.7 SD 1.6 /CGS/.
- 16 eZ Pn 22 40 26, eZ Pg 22 40 33, eZ Sg 22 40 09, D= 290 km.
- 17 eZ P 04 39 05, USCGS: H= 04 26 31.9, 22.4N, 121.4E, h= 33 km, Taiwan region. M= 5.1 SD 1.5 /CGS/.
- 17 eZ P 05 04 25, USCGS: H= 04 59 04.7, 40.9N, 48.2E, h= 33 km. Eastern Caucasus. M= 5.0 SD 1.0 /CGS/.
- 17 eZ Pn 09 31 06, eZ Pb 09 31 20, iZ Pg 09 31 25.5, iZ Sn 09 32 00.0, iZ Sg 09 32 26, D= 500 km, BCIS: H= 09 29 38 /DECM/ 43.3N, 10.5E, Apennins on the region of Livorno /Italy/, felt.
- 17 eZ+ P 12 04 16.3, eZ PP 12 08 26, eZ S 12 15 40, USCGS: H= 11 53 00.4, 41.0N, 143.0E, h= 48 km. Hokkaido, Japan region. Felt. M= 6 1/2 /PAL/, 6 1/4- 6 1/2 /GOL/, 5.7 MS= 6.1 /CGS/.
- 17 eZ+ P 17 08 30, USCGS: H= 16 56 13.1, 40.1N, 143.7E, h= 6 km. Off east coast of Honshu, Japan. M= 5.2 SD 1.2 /CGS/.
- 17 eZ+ PKP 18 28 58, eZ PP 18 31 51, eZ 18 32 34, D= 15400km, USCGS: H= 18 09 34.1, 12.3S, 166.7E, h= 33 km, Santa Cruz Islands. M= 6 /PAS/, 6 1/2 /PAL/, 5.5 MS= 6.1 SD 1.1 /CGS/.
- 17 eZ P 19 09 59, USCGS: H= 18 57 27.6, 38.7N, 143.6E, h= 17 km. Off east coast of Honshu, Japan. M= 4.9, MS= 5.8 SD 1.3 /CGS/.
- 18 eiZ Pn 05 28 44.1, iZ Sn 05 29 36.1, iZ Sg 05 29 59.5, NE 05 30 /OO/, D= 400 km. BCIS: H= 05 27 35 /DECM/, 45.6N, 7.9E Piemontian seismic soult, north of Ivrea. Felt VI-VII at Issime, Arnaz, Ponte S. Martino, Veres, Issogne, VI at Ivrea and Mongrando. Felt at Torino, Milano, Pavia, Lodi etc. Also felt in Switzerland and in France on the region of Mulhouse and Savoie and Haute-Savoie. M₁₀₀ = 5 1/2 /Bensberg/, M= 4.97 /Roma/, USCGS: H= 05 27 35.06, 45.7N, 8.1E, h= 5 km, Northern Italy. Slight damage in northern Italy, also felt in Switzerland. M=4.7 SD 1.3 /CGS/.
- 18 eZ PKIKP 07 01 04, eZ PKP2 07 01 29, D= 17100 km, USCGS: H= 06 42 21.9, 21.7S, 179.6W, h= 600 km. Fiji Islands region. M= 5.0 SD 0.8 /CGS/.
- 18 eZ+ Pn 11 18 58, eZ Sn 11 20 50, D= 1100 km. BCIS: H= 11 16 36 /DECM/, 37.9N, 23.5E, h= 180 km. Greece, Gulf of Salamina region.
- 19 eZ P 01 50 42, USCGS: H= 01 38 17.4, 39.5N, 142.7E, h=33 km, near east coast of Honshu, Japan. M= 5.3 SD 1.0 /CGS/.
- 19 eZ P or PKP 01 59 23,
- 19 eZ+ P 05 13 53, USCGS: H= 05 06 00, 50.0N, 78.0E, Kazakh-

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- /cont./ stan /USSR/, probably explosion. m= 6.3 /Uppsala/.
- 19 eZ+P 08 26 58, iZ PcP 08 27 05, USCGS: H= 08 13 35.0, 5.6 S, 77.2W, h= 28 km. Northern Peru, 41 killed and 100 injured. Mayor property damage at Chachapoyas and Moyabamba. M= 7 /PAS/, 6.8 /BRK/, 6.4, MS= 6.9 /CGS/.
- 19 eZ /P/ 08 43 52.
- 19 eZ P 08 51 49, eZ 08 51 04.
- 19 eZ 09 31 39, eZ 09 31 08.
- 19 eZ P 18 15 43, USCGS: H= 18 03 21.1, 40.3N, 143.3E, h= 33 km. Off east coast of Honshu, Japan. M= 4.5 SD 1.0 /CGS/.
- 20 Z P 02 52 /OO/, eZ PP 02 55 48, USCGS: H= 02 38 38.4, 5.6 S, 77.3W, h= 33 km. Northern Peru. M= 5.8 MS= 5.7 SD 1.0 /CGS/.
- 20 eZ 12 18 26, eZ /Sn/ 12 18 56, USCGS: H= 12 13 30, 35.4N, 24.0E, h= 43 km. Crete. M= 4.6 SD 1.1 /CGS/.
- 20 eZ 18 22 26, traces.
- 20 eZ /Sn/ 22 09 36, traces.
- 21 eZ P 00 39 41, eZ PP 00 43 30, D= 10500 km. USCGS: H= 00 26 07.8, 5.6S, 77.1N, h= 22 km, Northern Peru, M= 5.6 SD 0.7 /CGS/.
- 21 eZ Pg 13 19 /41/, eZ Sg 13 19 57, D= 130 km.
- 22 eZ+ P 01 26 56, iZ 01 26 04.5, eZ 01 28 05, USCGS: H= 01 12 30.9, 40.3N, 143.7E, h= 15 km. Off east coast of Honshu, Japan. M= 5 1/2 /PAL/, 5.6 MS= 5.5 SD 0.9 /CGS/.
- 22 iZ+ Pn 12 22 14.4, iZ 12 22 19.2, iZNE Sn 12 22 44.4, D= 270 km. BCIS: H= 12 21 37 /DECM/, 45.8N, 11.3E, MLH= 3.9 /Pruhonice/, Venetian Alps. Northern Italy. USCGS: H= 12 21 37.7, 45.9N, 11.3E, h= 35 km, Northern Italy. Felt at Venice and Trento. M= 4.6 SD 1.1 /CGS/.
- 22 eZ+ Pn 12 38 27.4, iZ 12 38 32.4, iZNE /Sn/ 12 38 59.4, D= 270 km. BCIS: H= 12 37 53 /DECM/, 45.9N, 11.6E, MLH= 3.8 /Pruhonice/, Venetian Alps, Northern Italy.
- 22 eZ P 16 03 22, BCIS: H= 15 56 48 /DECM/, 29 3/4N, 51 1/2E, Central Iran /Faristan/, Premonitory shock of the seisms of June 23, at 09 16. USCGS: H= 15 56 46.6, 29.6N, 51.5 E, h= 32 km. Southern Iran. M= 4.8 SD 1.1 /CGS/.
- 22 eZ PKP 21 19 44, USCGS: H= 21 01 02.5, 17.9S, 178.1W, H= 650 km. Fiji Islands region. M= 4.6 SD 0.7 /CGS/.

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- 23 eZ P 09 22 51.0, eZ 09 25 36, USCGS: H= 09 16 18.6, 29.8N, 51.2E, h= 34 km. Southern Iran. M= 5.2 SD 1.3 /CGS/. BCIS: H= 09 16 11 /DECM/, 29.6N, 51.4E, Central Iran /Faristan/, MLH= 5.1 /Pruhonic/.
- 23 eZ PKP 10 05 17, USCGS: H= 09 45 25.7, 18.3S, 167.6E, h= 12 km, New Hebrides Islands region. M= 4.6 DS 1.1 /CGS/.
- 25 eZ P 23 45 45, USCGS: H= 23 33 18.0, 39.6N, 143.4E, h= 16 km, Off east coast of Honshu, Japan. M= 5.3 SD 1.0 /CGS/.
- 26 eZ P 01 55 08, USCGS: H= 01 42 19.5, 40.1N, 124.4W, h= 10 km. Near coast of northern California. M= 5-5 1/4 /PAS/, 5 3/4 -6 /PAL/, 5.5, MS= 5.4 SD 1.2 /CGS/.
- 26 eZ P 02 00 49, eZ 02 01 19, USCGS: H= 01 54 15.3, 29.8N, 51.1E, h= 33 km. Southern Iran, M= 4.9 SD 1.0 /CGS/.
- 26 eZ Pn 03 15 20, eZ 03 15 33, eZ /Sn/ 03 15 53, /D=300 km/.
- 26 eZ P or PKP 12 22 09.
- 26 eZ /Pn/ 13 39 10, eZ Sn 13 39 26, /D= 130 km.
- 26 eZ+ PKIKP 16 00 06, iZ PKHKP 16 00 10.9, iZ PKP2 16 00 17.0, D= 17000 km. USCGS: H= 15 40 31.1, 22.2S, 171.4E, h= 90 km. Loyalty Islands region. M= 5.6 SD 1.0 /CGS/.
- 26 eZ Pg 17 13 03.0, iZ Sg 17 13 07.7, local, weak. D= 20 km.
- 27 eZ PKIKP 02 21 23, eZ PKHKP 02 21 30, USCGS: H= 02 02 40.2, 20.8S, 179.0W, h= 605km. Fiji Islands region. M= 4.9 SD 0.7 /CGS/.
- 27 Z Pn 15 45 /00/, Z Sn 15 46 /00/, eZ Sg 15 46 29, D= 560km. BCIS: H= 15 43 40 /DECM/, 46.3N, 6.8E, France-Switzerland border region. South of Lem an Lake. Felt in Chablais in Evian and in Abondance.
- 27 eZ Pn 16 25 44, eZ /Sn/ 16 26 42, eZ Sg 16 27 34, D= 550 km, BCIS: H= 16 24 23/DECM/, 46 1/4N, 6 1/2E, France-Switzerland border region. South of Lem an Lake. Felt in Chablais, Evian and in Abondance.
- 27 eZ PKP 22 32 20, USCGS: H= 22 14 01.3, 08.2S, 119.7E, h= 86 km. Flores Island region. M= 5.4 SD 1.0 /CGS/.
- 28 eZ /P/ 09 26 40, traces.
- 28 eZ P 14 36 33, USCGS: H= 14 24 00.1, 40.5N, 143.4E, h= 20 km. Off east coast of Honshu, Japan. M= 4.6 SD 1.0 /CGS/.
- 29 eZ Pn 15 33 07, eZ Sn 15 33 42, D= 320 km.
- 29 eZ /P/ 16 46 50,

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- 30 eZ P 15 01 05, USCGS: H= 14 48 35.9, 38.8 N, 142.7E, h= 10 km. Near east coast of Honshu, Japan. M= 4.8 SD 1.0 /CGS/.
- 30 eZ 17 03 49, eZ Sn 17 03 44,
- 30 eZ PKP 19 57 05, USCGS: H= 19 38 19, 18.6S, 177.9W, h= 605 km. Fiji Islands region. M= 4.2 SD 0.8 /CGS/.

Ljubljana, October 21, 1969

Interpretation: M.Hržič
Redaction: V.Ribarič



8 JUN 1970

**University of Ljubljana
Astronomical and Geophysical Observatory**

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

VII—IX 1968

Ljubljana 1969

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.Box 01-20, Yugoslavia

1968

PRELIMINARY SEISMOLOGICAL
BULLETIN

/ July - September 1968 /

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.Box 01-20, Yugoslavia

1968

PRELIMINARY SEISMOLOGICAL BULLETIN
From July 1, to September 30, 1968

Station: Ljubljana / LJU / - Coordinates: $46^{\circ} 02.6' N$ Lat.
 $14^{\circ} 32.0' E$ Long.
Geocentric direction cosines: $a = + 6743$, $b = + 1748$, $c = + 7175$
 $d = - 8$, $h = - 4$
Height above sea level: 396 m.
Lithologic fundation: sandstone /carbon/.

Instruments:

Wiechert, horizontal astatic seismograph, M= 200 kg, mechanical registration, 16-18 mm/min.

Constants / 31.1.1966 /:				
Component	To	v:l	r/T ₀ ²	V
N-S	5.0	2.20	0.0043	69
E-W	4.9	2.37	0.0058	67

Hiller-Stuttgart, vertical component Z with galvanometrical recording. To=1.5 sec, Tg=1.5 sec. D1=D2=1, Vmax=10150x,

Note: Periods of seismic waves are given in seconds, the amplitudes in microns. Sign. + means compression or movement of ground towards north or east, sign. - means dilatation or movement of ground towards south or west. All times are given in GMT. Time signals are received one or two times daily and are registered on a chronograph. Wherever possible time readings up to one tenth of a second are given. Macroseismic data refer to Mercalli-Cancani-Sieberg scale / MCS /, macroseismic rays are given in kilometers. Abbreviation DECM means: Determination was made by electronic computer.

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- 1 eZ- P 04 07 02.6, BCIS: H= 04 01 51 /DECM/, 48.ON, 47.9E, USSR, north of Caspian Sea. m= 6.6 /Uppsala/, artificial. USCGS: H= 04 02 01.7, 47.9N, 48.OE, h= 33 km. Western Kazakh SSR, M= 5.5 SD 0.9 /CGS/.
- 1 iZ+ P 10 57 38.1, eZ PP 11 01 55, D= 9400 km. USCGS: H= 10

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- /cont./ 45 11.9, 36.ON, 139.3E, h= 67 km. Honshu, Japan. 1 killed, 9 injured and minor damage in Tokyo area. M= 5.9 SD 1.2 /CGS/.
- 1 iZ Pn 11 08 43.8, iZ Pg 11 08 53.7, eiZ Sn 11 09 34, D= 480 km.
- 2 eZ 09 39 02, eZ 09 39 11, traces.
- 2 eZ P or PKP 17 01 49
- 2 eZ /P/ 17 59 14, eZ 18 00 23, traces.
- 2 eZ P or PKP 21 25 07
- 3 eZ P or PKP 15 13 34
- 4 eZ- P 00 46 40, USCGS: H= 00 34 13.2, 34.8N, 139.7E, h=104 km. Near coast of Honshu, Japan. M= 5.0 SD 1.0 /CGS/.
- 4 eZ P 07 24 32, eZ PP 07 27 55, D= 9400 km. USCGS: H= 07 12 24.2, 43.9N, 147.2E, h= 80 km. Kurile Islands. M= 5.0 SD 1.2 /CGS/.
- 4 eZ Pn 21 50 23, iZ Pg 21 50 49.4, eZEN Sn 21 52 21, eEN Sg 21 53 30, D= 1170 km. BCIS: H= 21 47 49 /DECM/, 37.6N, 23.2 E, Greece, eastern coast of Peloponissos. 100 houses damaged. Felt 5° at Athens and at Corinth areas. MB= 5.3 SD 1.2 /CGS/.
- 4 eZ P 23 21 19, BCIS: H= 23 17 53 /DECM/, 35.3N, 27.9E, h= 50 km. Mediterranean Sea. South of Rhodes. Aftershock of the seisms of May 30, 1968 at 17 40. USCGS: H= 23 17 52.9, 35.4N, 27.9E, h= 42 km. Dodecanese Islands. h=42 km. M= 4.4 SD 1.3 /CGS/.
- 5 eZ P 00 58 19, USCGS: H= 00 45 17.2, 34.1N, 119.7W, h= 6 km. Southern California 34°07.0'N, 119°42.1'W, M= 5.2, hypocenter and magnitude by Pasadena. Minor damage in the Santa Barbara area. MB= 5.7 SD - /CGS/.
- 5 iZNE Pg 08 40 00.3, iZNE! 08 40 02.0, D= 12-15 km. BCIS: H= 08 39 59, macroseismic epicenter: 46°05'N, 14°38'E, Slovenia, Yugoslavia. Io= 5°. Felt 5° at Vevče, 4-5° at Domžale and Ljubljana. 3° at Litija, 2° at Kranj.
- From July 5, 1968 at 10 07 to July 7, 1968, at 07 57 station not operating.
- 7 eZ P 13 28 40, USCGS: H= 13 16 14.2, 39.3N, 142.9E, h= 24 km. Near east coast of Honshu, Japan. MB= 5.1 SD 1.4 /CGS/.
- 7 eZ PKIKP 14 43 24, eZ /PKP2/ 14 43 40, USCGS: H= 14 23 33.6, 22.2S, 175.1W, h= 33km. Tonga Islands region. MB= 5.3 SD 1.2 /CGS/.

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- 8 eZ P 00 01 31, USCGS: H= 23 48 08.2, 5.8S, 77.1N, h= 27 km. Northern Peru. Felt at Moyabamba. MB= 5.5 MS= 5.2 SD 1.0 /CGS/.
- 8 eZ PKIKP 05 16 41, eZ PKHKP 05 16 45, eZ pPKP 05 18 00, USCGS: H= 04 57 22, 18.2S, 175.5W, h= 246 km. Tonga Islands. MB= 4.6 SD 0.8 /CGS/.
- 8 eZ Pn 05 43 14, eZ 05 44 04, eZ /Sg/ 05 44 12, BCIS: H= 05 41 34 /DECM/, 46.2N, 7.6E, Valley of Anniviers, Valais, Switzerland.
- 8 eZ /Pn/ 05 46 48, eZ Sn 05 47 43, /D= 510km/. BCIS: H= 05 45 34 /DECM/, 46.2N, 7.6E, Valley of Anniviers, Valais, Switzerland. USCGS: H= 05 45 35, 46.3N, 7.7E, h= 33 km. Switzerland, MB= 4.1 SD 1.0 /CGS/.
- 8 eZ P 11 34 40, USCGS: H= 11 27 24, 28.ON, 57.OE, h= 15 km. Southern Iran. MB= 0.7 /CGS/.
- 8 eZ PKIKP 12 28 10, eZ PKHKP 12 28 19, eZ PKP2 12 28 35, eZ pPKP 12 30 27, USCGS: H= 12 09 28.4, 22.2S, 179.8W, h= 622 km. South of Fiji Islands. MB= 4.9 SD 0.6 /CGS/.
- 8 eZ PKIKP 14 26 10, eZ PKHKP 14 26 17, USCGS: H= 14 07 05, 19.4S, 177.4W, h= 356 km. Fiji Islands, MB= 4.3 SD 1.5/CGS/.
- 8 Z P 17 22 /00/, BCIS: H= 17 15 21 /DECM/, 29.6N, 51.3E, Central Iran, Faristan. USCGS: H= 17 15 28.3, 29.7N, 51.1 E, h= 44 km. Southern Iran. MB= 4.9 MS= 5.1 SD 1.0 /CGS/.
- 8 eZ Pn 17 44 21, iZ 17 44 32.7, eZ Sn 17 46 43, D= 1420 km. BCIS: H= 17 41 09 /DECM/, 34.7N, 25.1E, h= 75 km. Mediterranean Sea, South of Crete. MLH= 4.8 /Pruhonice/. USCGS: H= 17 41 05.8, 34.4N, 25.2E, h= 33 km. Crete, MB= 5.3 SD 1.1 /CGS/.
- 8 eZ Pn 18 21 37, Z /Sn/ 18 24 /00/, BCIS: H= 18 18 08/DECM/, 34 1/4N, 25 1/2E, Mediterranean Sea. South of Crete. USCGS: H= 18 18 09.8, 34.3N, 25.2E, h= 33 km. Crete. MB= 4.3 SD 1.2 /CGS/.
- 8 eZ P 21 38 54, eZ 21 42 33, USCGS: H= 21 24 48.3, 28.8N, 142.5E, h= 33 km. Bonin Islands region. MB= 5.3 SD 1.2 /CGS/.
- 9 eZ /Pn/ 07 16 28, eZ 07 17 40, traces.
- 9 eZ P 08 40 52, USCGS: H= 08 28 23.0, 40.4N, 143.7E, h= 33 km. Off coast of Honshu, Japan. MB= 4.8 SD 1.2 /CGS/.
- 9 eZ Pn 15 04 13, eZ Sn 15 06 33, Z 15 07 /00/, D= 1400 km. BCIS: H= 15 00 42 /DECM/, 34.2N, 25.OE, Mediterranean Sea. South of Crete. USCGS: H= 15 00 43.9, 34.3N, 25.3E, h=22

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- /cont./ km. Crete, MB= 4.6 SD 1.5 /CGS/.
- 9 eZ 22 57 11, eZ 22 58 07, traces.
- 9 eZ PKP 23 36 01.5, USCGS: H= 23 17 21, 18.2S, 178.2W, h= 659 km. Fiji Islands region. MB= 4.1 SD 0.7 /CGS/.
- 10 eZ+P 20 52 52, eZ PP 20 56 52, D= 8900 km. USCGS: H= 20 40 31.2, 40.2N, 143.2E, h= 35 km. Off east coast of Honshu, Japan. MB= 5.3 SD 1.0 /CGS/.
- 10 eZ P 22 33 32, USCGS: H= 22 21 10.5, 40.3N, 143.2E, h= 33 km. Off east coast of Honshu, Japan. MB= 4.7 SD 1.1 /CGS/.
- 12 eZ P 00 57 02, USCGS: H= 00 44 36.5, 39.5N, 143.2E, h= 28 km. Off east coast of Honshu, Japan. M= 6 1/4 /PAS/, 6/GOL/, MB= 6.0 MS= 5.8 SD 1.1 /CGS/.
- 12 eZ P 04 08 52, USCGS: H= 03 56 27.5, 39.5N, 143.2E, h= 26 km. Off east coast of Honshu, Japan. MB= 5.5 MS= 5.5 SD 0.9 /CGS/.
- 13 eZ PKP 06 57 23, USCGS: H= 06 38 26.2, 6.4S, 149.7E, h= 36 km. New Britain region, MB= 5.1 SD 1.2 /CGS/.
- 13 eZ PKP 23 36 36, USCGS: H= 23 17 09.0, 18.3S, 175.0W, h= 230 km. Tonga Islands. MB= 4.7 SD 0.8 /CGS/.
- 14 eZ Pg 06 30 13, iZ Sg 06 30 25.0, D= 100 km.
- 14 eZ 08 00 12, eZ 08 00 24, traces.
- 14 eZ PKP 08 16 51, eZ 08 17 10, USCGS: H= 07 57 01.1, 19.5S, 173.6W, h= 86 km. Tonga Islands. MB= 5.1 SD 1.0 /CGS/.
- 14 eZ P 18 23 05, USCGS: H= 18 12 41, 30.3N, 94.8E, h= 22 km. Tibet. MB= 4.9 SD 0.9 /CGS/.
- 15 eZ 09 14 26, eZ 09 14 50, traces.
- 15 eZ 19 26 25, eZ /Sn/ 19 26 32, weak.
- 17 eZ PP 05 43 22, USCGS: H= 05 24 15.6, 8.8S, 125.0E, h= 25 km. Timor. MB= 5.7, MS= 5.7 SD 1.4 /CGS/.
- 17 Z P 06 36 /OO/, USCGS: H= 06 23 11.1, 10.4N, 83.4W, h= 19 km. Costa Rica. MB= 5.1 SD 1.0 /CGS/.
- From July 17, at 15 41 to July 18, at 12 33 station not operated.
- 19 eZ+P 05 08 14, USCGS: H= 04 56 27.2, 8.7N, 93.6E, h= 33 km. Nicobar Islands region. MB= 5.3 MS= 5.5 SD 1.1 /CGS/.
- 19 eZ P 06 19 19, USCGS: H= 06 07 22, 8.9N, 93.8E, h= 33 km.

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- /cont./ Nicobar Islands region. MB= 4.8 SD 0.7 /CGS/.
- 19 eZ PKP 09 40 30, USCGS: H= 09 21 04.8, 13.0S, 166.5E, h= 29 km. New Hebrides Islands. M= 5 3/4 /PAL/, 5 1/2 /GOL/, MB= 5.1 MS= 5.3 SD 1.0 /CGS/.
- 19 eZ /Pn/ 19 55 27, eZ Sn 19 55 41, /D= 110 km./
- 19 eZ /P/ 20 50 09, eZ 20 51 35,
- 20 eZ 21 52 05, iZ Sg 21 52 13.5,
- 21 eZ P 01 51 11, USCGS: H= 01 41 19.5, 55.2N, 113.E, h= 33 km. East of Lake Baikal. MB= 5.1 SD 0.7 /CGS/.
- 21 eZ PKP 06 52 36, USCGS: H= 06 32 39.3, 174.0W, 20. S, h= 52 km. MB= 4.9 SD 1.0 /CGS/.
- 21 eZ PKP 17 48 10, USCGS: H= 17 28 17.6, 58.1S, 148.3E, h= 33 km. West of Macquarie Island. MB= 4.9 MS= 5.9 SD 1.6 /CGS/.
- 22 eZ+ PKHKP 18 18 08, eZ! PKP2 18 18 20.5, USCGS: H= 17 58 30.3, 20.1S, 169.0E, h= 34 km. New Hebrides Islands. M= 5.6-5.9 /BRK/, 5 1/2 /PAL/, MB= 5.4 MS= 5.5 SD 1.0 /CGS/.
- 23 eZ P 18 41 33, USCGS: H= 18 28 01.2, 18.7N, 107.0W, h= 33 km. Off coast of Jalisco, Mexico. M= 6.0 /PAS/, 5.5-5.7 /BRK/, 5 3/4 /PAL/, 5 3/4 /GOL/, MB= 5.4 MS= 5.9 SD 1.1 /CGS/.
- 23 Z P 23 15 /OO/, eZ PP 23 18 07, D= 9100 km. USCGS: H= 23 02 35.5, 40.3N, 143.3E, h= 14 km. Off east coast of Honshu, Japan. M= 5 3/4 /GOL/, MB= 5.2 MS= 5.6 SD 1.1 /CGS/.
- 24 eZ 16 26 03, iZ Sn 16 26 09.8,
- 24 eZ PKP 20 40 34, USCGS: H= 20 20 55.3, 15.4S, 173.2W, h= 84 km. Tonga Islands. MB= 5.3 SD 1.0, /CGS/.
- 24 eZ Pn 20 58 38, eZ /Sn/ 21 00 19, D= 1050 km. BCIS: H= 20 56 17 /DECM/, 38.3N, 21.9E, North of Peloponissos. ML= 4.0 /Athens/.
- 25 Z! PKIKP 07 43 /OO/, eZ PKP2 07 43 47, eZ PP 07 47 26, ZSKS 07 51 /OO/, D= 18000 km. USCGS: H= 07 23 07.8, 30.8S, 178.4 W, h= 33 km. Kermadec Islands region. Felt on Radul. M= 7-7 1/4 /PAS/, 6.5-6.9 /BRK/, 6 3/4 -7 /PAL/, 6 3/4 -7 /GOL/, MB= 6.4 SD 1.0 /CGS/.
- 25 eZ P 11 02 37, USCGS: H= 10 50 31.5, 45.7N, 146.7E, h= 16 km. Kurile Islands. MB= 5.9 MS= 5.5 SD 1.0 /CGS/.
- 25 iZ Pn 22 06 05.0, eZ Sn 22 08 33, D= 850 km. BCIS: H= 22 05 28 /DECM/, 40.9N, 20.2E, Albania, ML= 4.4 /Pruhonice/, ML= 4.4 /Athens/.

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- 26 eZ P 17 18 48, USCGS: H= 17 07 24.9, 22.4S, 12.6W, h= 33km. South Atlantic Ridge. MB= 5.3 SD 1.3 /CGS/.
- 27 eZ Pn 02 49 18, iZ! 02 49 23.7, eZNE Sn 02 52 06, D= 1650 km. BCIS: H= 02 45 50 /DECM/, 35.4N, 27.9E, depth normal. Mediterranean Sea. South of Rhodes. Felt in southwestern Anatolia. MLH= 6.1 /Strasbourg/, 5.7 /Pruhonice/, 4.8 /Athens/, USCGS: H= 02 45 49.2, 35.4N, 27.8E, h= 21km. Dodecanese Islands. Felt in southwestern Anatolia. M= 5 1/4 /PAL/, 5 1/4 - 5 1/2 /GOL/, MB= 5.0 MS= 5.7 SD 1.4 /CGS/.
- 27 eZ PKIKP 11 11 16, eZ PKHKP 11 11 19, eZ PKP2 11 11 32, D= 16900 km. USCGS: H= 10 51 40.1, 19.2S, 175.7E, h= 88 km. South of Fiji Islands. MB= 5.4 SD 0.8 /CGS/.
- 27 eZ 21 46 03, eZ 21 48 14, traces.
- 28 eZ PKP 11 18 27, USCGS: H= 10 58 25.7, 22.5S, 174.7W, h= 33 km. Tonga Islands region. MB= 5.0 MS= 5.2 SD 1.0 /CGS/.
- 28 eZ P 21 24 26, eZ PP 21 27 22, D= 8400 km. USCGS: H= 21 12 38.1, 55.4N, 166.6E, h= 27 km. Komandorsky Islands region. M= 5.5- 5.7 /BRK/, 5 3/4 /GOL/, 5 1/4 /PAL/, MB= 5.4 MS= 5.8 SD 1.1 /CGS/.
- 29 eZ PKP 13 49 31, traces. USCGS: H= 13 30 31.9, 3.2S, 150.6 E, h= 28 km. New Ireland region. MB= 5.4 MS= 5.7 SD 1.0 /CGS/.
- 29 eZ PKP 15 39 49, USCGS: H= 15 19 57.6, 21.5S, 174.4W, h= 33 km. Tonga Islands. MB= 5.0 MS= 5.3 SD 1.1 /CGS/.
- 30 eZ P 00 06 54, eZ PKP 00 10 42, eZ PP 0011 22, D= 11100 km. USCGS: H= 23 52 15.0, 0.2S, 133.4E, h= 12 km. West New Guinea region. M= 6 1/2 /PAS/, 6 1/2 /PAL/, MB= 6.1 MS= 6.0 SD 1.1 /CGS/.
- 30 eZ PKIKP 03 09 21, eZ PKHKP 03 09 29, eZ PKP2 03 09 43, eZ pPKP 03 11 53, USCGS: H= 02 50 41.4, 20.9S, 179.2W, h= 620 km. Fiji Islands region. M= 5.6 - 5.8 /BRK/, MB= 4.9 SD 0.9 /CGS/.
- 30 Z PKP 04 30 /OO/, USCGS: H= 04 10 12.1, 22.4S, 175.0W, h= 33 km. Tonga Islands region. M= 5.5-5.7 /BRK/, 6 /PAL/, MB= 5.3 MS= 5.7 SD 1.0 /CGS/.
- 30 eZ 11 59 56, traces.
- 30 eZ P 17 46 44, USCGS: H= 17 34 29.0, 44.1N, 148.8W, h= 35 km. Kurile Islands. MB= 5.2 SD 1.0 /CGS/.
- 30 eZ P 20 52 18, eZ PP 20 56 19, USCGS: H= 20 38 42.0, 6.9S, 80.5W, h= 37 km. Near coast of northern Peru. Felt in northern Peru. M= 6.0- 6.2 /BKS/, 5 1/2- 5 3/4 /PAL/, 5 3/4 /GOL/, MB= 5.8 MS= 6.3 SD 1.1 /CGS/.

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- 31 eZ Pn 09 24 11, iZ Pg 09 24 56.5, iZ Sn 09 25 58, D= 1050 km. BCIS: H= 09 21 55 /DECM/, 37.7N, 20.9E, Ionian Sea. ML= 4.4 /Athens/. USCGS: H= 09 21 59.6, 37.8N, 21.4E, h= 80 km. Southern Greece. MB= 4.3 SD 1.4 /CGS/.
- 31 eZ Pn 14 28 27, eZ /Sn/ 14 30 08, /D= 1000 km/. Athens: H= 14 26 27, 39.8N, 21.2E, ML= 3.8.
- 31 eZ Pn 19 32 54, eZ Sn 19 34 39, D= 1030 km. BCIS: H= 19 29 28 /DECM/, 35.5N, 28.0N, h= normal. Mediterranean Sea. South of Rhodes. ML= 5.1 /Athens/. MLH= 4.6 /Praha/, 4.5 /Pruhonice/, USCGS: H= 19 29 26.7, 35.5N, 28.0E, h= 27 km. Eastern Mediterranean Sea. MB= 4.8 SD 1.2 /CGS/.

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- 1 eZ+ PKIKP 00 33 59, eZ PKP2 00 34 35, eZ PP 00 38 23, eZ PFP 00 41 49, D= 17600 km. USCGS: H= 00 14 16.0, 26.6S, 177.5W, h= 123 km. South of Fiji Islands. M= 5.1 /BRK/, 5 1/2 /PAL/, MB= 5.6 MS= 5.6 SD 0.9 /CGS/.
- 1 eZ P 14 29 39, BCIS: H= 14 23 04, /DECM/, 38.2N, 29.8W, Azores. USCGS: H= 14 23 03.9, 39.2N, 29.9W, h= 33 km. Azores. MB= 4.9 SD 1.2 /CGS/.
- 1 eZ P 18 39 36, USCGS: H= 18 27 23.1, 40.0N, 139.2E, h= 42 km. Near west coast of Honshu, Japan. MB= 4.9 SD 0.9 /CGS/.
- 1 eZ Pg 19 45 08, iZ Sg 19 45 22, D= 120 km.
- 1 eZNE P 20 32 18, eZ! 20 32 35, eZNE S 20 42 /OO/, D= 10000 km. USCGS: H= 20 19 21.9, 16.5N, 122.2E, h= 36 km. Luzon. Philippine Islands at least 207 killed, many injured, extensive property damage in the Manila area. Felt extensively on Luzon. M= 7 /PAS/, 6.5- 7.0 /BRK/, 7 /GOL/, MB= 5.9 MS= 7.3 SD 1.2 /CGS/.
- 1 eZ P P or PKP 23 18 /OO/, eZ 23 19 59.
- 2 eZ Pn 02 33 36, eZ Pb 02 33 44, eZ Pg 02 33 56, eZ Sn 02 34 34, D= 570 km.
- 2 eZ P 04 05 /OO/, eZ 04 05 31, traces. USCGS: H= 03 59 23.8, 36.6N, 49.1E, h= 10 km. Western Iran. MB= 4.4 SD 1.1 /CGS/.
- 2 iZ -P 13 37 59.8, eZ PP 13 39 38, eZ S 13 43 /44/, USCGS: H= 13 30 23.3, 27.5N, 60.9E, h= 62 km. Southern Iran. MB= 5.7 SD 1.1 /CGS/.
- 2 eZ+ P 14 19 53.5, eZNE PP 14 22 39, eZNE S 14 30 30, D= 10000 km. USCGS: H= 14 06 43.9, 16.6N, 97.7W, h= 40 km. Oaxaca, Mexico at least 4 killed, many injured, extensive

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- /cont./ property damage in the Oaxaca area. Moderate damage at Mexico City. M= 7- 7 1/4 /PAS/, 6.8 /BRK/, 6 3/4 -7 /PAL/, 7- 7 1/4 /GOL/, MB= 6.3 MS= 7.1 SD 1.2 /CGS/.
- 4 Z P 11 54 /OO/, USCGS: H= 11 41 24.8, 6.6N, 126.8E, h= 107 km. Mindanao, Philippine Islands. M= 6.25 /PAS/, 6.3 -6.5 /BRK/, MB= 5.7 SD 1.1 /CGS/.
- 5 eZ! P 16 29 29, USCGS: H= 16 17 04.8, 33.3N, 132.2E, h= 41 km. Shikoku, Japan. 14 injured and minor damage on Kyushu and Shikoku, also felt at western Honshu. M= 7- 7 1/4 /PAS/, 6.4- 6.6 /BRK/, MB= 6.3 MS= 6.1, SD 0.9 /CGS/.
- 6 eZ P 08 42 55, USCGS: H= 08 34 42.3, 13.9N, 51.5E, h= 33km. Eastern Gulf of Aden. MB= 4.9 SD 1.0 /CGS/.
- 7 eZ+P 08 12 23, USCGS: H= 08 00 13.4, 43.1N, 144.6E, h= 54 km. Hokkaido. Japan region. MB= 5.6 SD 1.0 /CGS/.
- 7 iZ Pg 08 52 12.6, iZ Sg 08 52 16.0, D= 30 km.
- 7 eiZ+Pg 09 04 22.4, iZ Sg 09 04 39.4, D= 140 km. BCIS: H=09 04 00, 45 1/2N, 16.0E, Felt in Zagreb.
- 7 iZ Sg 13 45 28.0,
- 8 eZ P 05 07 42, USCGS: H= 04 55 10.0, 36.4N, 141.4E, h= 41 km. Near east coast of Honshu, Japan. MB= 5.4 SD 0.9 /CGS/.
- 8 iZ /Pg/ 05 44 45.4, eZ Sg 05 45 04, /D= 150 km./
- 9 eZ PKIKP 03 27 15, eZ PP 03 29 36, eZ PKS 03 30 46, D=14400 km. USCGS: H= 03 08 04.2, 22.4S, 113.0W, h= 33 km. Easter Island region. M= 6 1/4- 6 1/2 /PAS/, 5.8- 6.0 /BRK/, MB= 5.4 MS= 5.8 SD 1.2 /CGS/.
- 9 eZ Pn 03 58 18, eZ 03 59 06.
- 10 eZ P+ 02 21 06, iZ 02 21 14.9, iZ PP 02 25 29, Z SKS 02 32 /OO/, Z S 02 33 /OO/, D= 11700 km. USCGS: H= 02 07 04.3, 1.4N, 126.2E, h= 33 km. Molucca Passage. M= 7 1/4- 7 1/2 /PAS/, 7.6- 8 /BRK/, 7.5 /PAL/, MB= 6.3 MS= 7.6 SD 1.3 /CGS/.
- 10 eZ P 04 19 /OO/, eZ 04 23 32, eZ PP 04 24 09, D= 11800 km. USCGS: H= 04 05 50.6, 1.3N, 126.5E, h= 33 km. Molucca Passage. Damage at Malago, Celebes. MB= 5.7 SD 1.4 /CGS/.
- 10 eZ P 04 33 07, BCIS: H= 04 28 01 /DECM/, 36.8N, 43.1E, h= 50 km. cca. Iraq - Turkey frontier region. MB= 5.0 /CGS/. USCGS: H= 04 27 59.8, 36.9N, 43.0E, h= 29 km. Iraq. MB=5.0 SD 0.8 /CGS/.
- 10 eZ P 06 05 49, eZ PP 06 10 13, eZ SKS 06 16 24, eZ S 06 17 41, D= 11700 km. USCGS: H= 05 51 47.9, 1.5N, 126.2E, h= 33 km. Molucca Passage. MB= 6.2 MS= 6.6 SD 1.4 /CGS/.



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- 10 eZ P 16 54 25, Z 16 58 /OO/, D= 10000 km. USCGS: H= 16 41 25.4, 15.5N, 121.6E, h= 33 km. Luzon, Philippine Islands. MB= 5.4 MS 5.2 SD 1.1 /CGS/.
- 10 eZ PKP 19 38 11, iZ! 19 38 15.6, USCGS: H= 19 18 43.0, 21.5 S, 170.4E, h= 136 km. Loyalty Islands region. MB= 5.1 SD 1.0 /CGS/.
- 11 eZ P 12 48 29, USCGS: H= 12 37 28.1, 52.1N, 179.9W, h=159 km. Andreanof Islands, Aleutian Islands. Felt on Adak. M= 5.1 /BRK/, MB= 5.5 SD 1.2 /CGS/.
- 11 eZ P 20 14 45, Z PP 20 19 /OO/, USCGS: H= 20 00 43.4, 1.6 N, 126.1E, h= 33 km. Molucca Passage. D= 11700 km. M= 6 1/4 /PAS/, 5.9 /BRK/, MB= 5.9 MS= 6.0 SD 1.4 /CGS/.
- 12 iZNE Pg 13 54 46.1, iZNE Sg, 13 54 48.8, Felt 4° at Ljubljana, I₀ = 5°.
- 12 eZ PKP18 27 11, USCGS: H= 18 07 10.6, 31.4S, 177.9W, h=33 km. Kermadec Islands. M= 5.2 - 5.4 /BRK/, MB= 4.9 MS= 5.4 DS 1.2 /CGS/.
- 12 iZ Pg 21 44 30.5, iZNE Sg 21 44 32.9, D= 18 km. Felt: Lju-2°-3°, Zlato polje /Trojane/ 4°.
- 13 eZ Pn 01 53 37, eZ Sn 01 54 19, eZ /Sg/ 01 54 27.4, D=410 km. BCIS: H= 01 52 42, /DECM/, 46.6N, 9.6E, MLH= 3.0/Moxa/, Switzerland.
- 13 eZ 13 03 11, traces.
- 13 Z Pn 13 32 /OO/, eZ 13 32 36.8, eZ Sn 13 32 45, eZ 13 32 52, D= 410km. BCIS: H= 13 31 06 /DECM/, 46.7N, 9.7E, Switzerland. MLH= 3.2 /Moxa/.
- 13 eZ 17 01 46, BCIS: H= 16 57 15 /DECM/, 50.4N, 4.2E, Belgium, Felt on the region of Luviere and important damage. MLoc.= 4 /Bensberg/.
- 13 iZ Pn 18 03 48.7, eZ 18 04 21, eZ Sn 18 04 34, D= 410 km. BCIS: H= 18 02 55 /DECM/, 46.7N, 9.8E, Switzerland, MLH= 3.5 /Moxa/.
- 13 eZ PKHKP 19 54 36, eZ PKIKP 19 54 40, eZ /PP/ 19 58 07, US CGS: H= 19 35 20.9, 15.5S, 167.5E, h= 125 km. New Hebrides Islands. MB= 5.2 SD 1.2 /CGS/.
- 14 eZ P 08 09 43, eZ PP 08 13 22, D= 10000 km. USCGS: H= 07 56 35.5, 15.1N, 122.5E, h= 8 km. Philippine Islands. MB= 5.4 SD 1.0 /CGS/.
- 14 eZ P 08 52 03, USCGS: H= 08 38 48.4, 18.5N, 102.8 W, h=72 km. Michoacan, Mexico. Felt at Mexico City, M= 5.5- 5.7 /BRK/. 5-5 1/4 /PAL/, 6-6 1/4/GOL/, MB=5.4 SD 1.0 /CGS/.

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- 14 eZ Pn 18 25 33, eZ /Sn/ 18 27 34, D= 1190 km. Athens: H= 18 23 12, 39.7N, 21.8E, M= 4.0, Felt in Evrytania /5° at Karople-sion/ and in Karditsa /4° at Metropolis/.
- 14 eZ P 22 28 23, eZ PP 22 32 23, eZ S 22 39 19, D= 11100 km. USCGS: H= 22 14 19.4, 0.2N, 119.8E, h= 23 km. Northern Ce-lebes. Tsunami swept coastal area of Donggal district. 200 killed at Tambu. Tuguan Island submerged, approximately 500 occupying this Island were lost. M= 7 3/4 /PAS/, 6.8-7.2 /BRK/, 7 1/4-7 1/2 /PAL/, MB= 6.0 MS= 7.4 SD 1.4 /CGS/.
- 15 Z Pn 02 33 /OO/, eZ /Sn/ 02 35 10, /D= 1300 km/ BCIS: H= 02 29 46 /DECM/, 35.6N, 27.0E, h= normal. Sea of Crete. MLH= 4.8 /Pruhonice/, ML= 4.5 /Athens/. USCGS: H= 02 29 45.4, 35.3N, 26.8E, h= 67 km. Crete. MB= 4.8 SD 1.4 /CGS/.
- 15 eZ PKIKP 07 10 12.4, eZ PKP2 07 10 38.5, eZ 07 11 01, D= 16400 km. USCGS: H= 06 50 38.7, 23.8S, 177.4W, h= 188 km. South of Fiji Islands. M= 6-6 1/4 /PAS/, MB= 5.5 SD 1.0 /CGS/.
- 15 Z PKP 18 00 /OO/, USCGS: H= 17 41 28.1, 12.7S, 166.2E, h= 4 km, Santa Cruz Islands. MB= 5.4 MS= 5.5 SD 1.0 /CGS/.
- 16 eZ Pn 10 30 34, iZ Pg 10 30 44, iZ Sg 10 31 26.0, D= 350 km.
- 16 eZ P 10 51 46, USCGS: H= 10 39 16.8, 38.5N, 143.3E, h= 22 km. Off east coast of Honshu, Japan. M= 5.5-5.9 /BRK/, 5 1/4 - 5 1/2 /GOL/, MB= 5.6 MS= 5.3 SD 1.0 /CGS/.
- 16 eZ 10 55 12, traces.
- 16 eZ PKIKP 11 52 55, eZ PKHKP 11 53 03, eZ PKP2 11 53 17, D= 16980 km. USCGS: H= 11 34 16.4, 21.1S, 179.3W, h= 640 km. Fiji Islands. MB= 5.1 SD 1.1 /CGS/.
- 16 eZ 11 55 24, traces.
- 16 iZ Pg 21 33 53.7, iZNE Sg 21 34 /OO/, D= 45 km, BCIS: H= 21 33 46 /DECM/, 46.5N, 14.3E, Yugoslavia. Felt 4°-5° at Radov-ljica, 4° at Bled, Gorje, 3°-4° at Tržič, 3° at Kranj. I = 5°. USCGS: H= 21 33 46.7, 46.4N, 14.2E, h= 33 km. Yugosla-via. Felt at Radovljica, Gorje and Tržič, MB= 4.2 SD 1.0 /CGS/.
- 18 eZ P 07 24 42, USCGS: H= 07 12 19.3, 35.3N, 135.3E, h= 33 km. Southern Honshu, Japan. Felt in southwestern Japan. MB= 5.0 SD 1.2 /CGS/.
- 18 eiZ P 18 56 36, iZ! 18 56 48.6, eZ PP 18 59 26, D= 14650 km. USCGS: H= 18 38 30.6, 10.1S, 159.9E, h= 538 km. Solomon Is-lands. Felt in Honiara. MB= 6.2 SD 1.1 /CGS/.
- 19 iZ Pn 00 38 04.6, iZ Pg 00 38 27.6, eZ Sn 00 39 07, eZ Sg 00 39 33, D= 600 km. BCIS: H= 00 36 41 /DECM/, 46.3N, 6.7E, Hight Savoia /France/. Felt at Annecy and Cluses./Press/.

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- /cont./ 4° at Evian /Hight Savoia/. MLH= 4.2 /Pruhonice/, USCGS: H= 00 36 43.8, 46.4N, 6.9E, h= 33 km. Switzerland. Felt at Annecy, Cluses and Evian, France. MB= 4.3 SD 1.3 /CGS/.
- 19 eZ 15 41 51, eZ 15 42 26, traces. BCIS: H= 15 35 47 /DECM/, 33.8N, 25.8E, Mediterranean Sea. South of Crete. USCGS: H= 15 35 52.4, 33.8N, 25.8E, h= 33 km. Eastern Mediterranean Sea. MB= 4.9 SD 1.5 /CGS/.
- 19 Z PKP 16 02 /OO/, eZ pPKP 16 03 42, USCGS: H= 15 42 29.7, 15.9S, 174.0W, h= 151 km. Tonga Islands. MB= 5.3 SD 1.2 /CGS/.
- 20 eZ 03 29 12, traces.
- 20 Z PKP 03 35 /OO/, USCGS: H= 03 15 46.1, 31.1S, 179.9E, h= 361 km. Kermadec Islands. MB= 4.8 SD 1.1 /CGS/.
- 20 eZ 05 03 28, eZ Sn 05 04 11, traces.
- 20 eZ PKP 11 35 37, USCGS: H= 11 16 59.3, 5.6N, 146.9E, h= 33 km. Caroline Islands region. MB= 5.6 SD 1.0 /CGS/.
- 20 eZ P or PKP 14 19 00,
- 20 eZ PKP 15 45 29, USCGS: H= 15 25 31.5, 31.2S, 178.4W, h= 33 km. Kermadec Islands. MB= 5.1 SD 1.4 /CGS/.
- 21 eZ PKIKP 18 16 46, eZ 18 16 51, eZ PP 18 21 19, eZ PKS 18 21 21, D= 17870, km. USCGS: H= 17 56 48.0, 30.9N, 179.1W, h= 33 km. Kermadec Islands, M= 6 1/2 /PAS/, 6.4-6.6 /BRK/, 6 3/4 /PAL/, 6 1/2-6 3/4 /GOL/, MB= 5.3 MS= 6.4, SD 1.2 /CGS/.
- 21 eZ /Pn/ 18 44 28, eZ Sn 18 46 23, D= 1130 km. Athens: 18 41 53, 37.1N, 20.6E. ML= 3.9, Greece.
- 22 eZ P or PKP 12 15 55.
- 22 eZ P 13 44 28, USCGS: H= 13 32 24.3, 52.8N, 171.0E, h= 34 km. Near Islands, Aleutian Islands. MB= 4.8 SD 0.6 /CGS/.
- 22 eZ P 14 12 09, eZ PP 14 15 11, D= 8900 km. USCGS: H= 14 00 06.8, 53.0N, 171.0E, h= 33 km. Near Islands, Aleutian Is-lands. M= 6.0- 6.4 /BRK/, 5 3/4 /PAL/, 5 3/4- 6 /GOL/, MB= 5.4 MS= 6.0 SD 1.1 /CGS/.
- 22 eZ Pn 14 31 /24/, eZ 14 33 54., Athens: 14 29 09, 40.1N, 25.1E, ML= 4.0, Greece.
- 22 eZ PKP 16 39 00 iZ pPKP 16 39 40.0, USCGS: H= 16 19 39.5, 19.1S, 169.1E, h= 166 km. New Hebrides Islands. Felt at Port Vila. M= 6.0- 6.4 /BRK/, MB= 5.1 SD 1.0 /CGS/.
- 23 eZ PKP 17 07 45, USCGS: H= 16 47 57.0, 17.9S, 173.9W, h=

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- /cont./ 72 km. Tonga Islands. MB= 4.0 SD 1.1 /CGS/.
- 23 eZ P 22 49 30, eZ pP 22 51 28, USCGS: H= 22 36 51.3, 22.0S, 63.5W, h= 537 km. Salta Province, Argentina. M= 5.3 - 5.5 /BRK/, 5 3/4 /PAL/, MB= 5.8 SD 1.0 /CGS/.
- 24 eZ PKP 18 49 47, USCGS: H= 18 29 58.9, 22.2S, 138.8W, h= 33 km. Tuamotu Archipelago region. Mururoa atol. Explosion /France/.
- 25 eZ+ P 09 19 54, USCGS: H= 09 07 31.9, 40.1N, 143.2E, h= 33 km. Off east coast of Honshu, Japan. M= 4.8-5.2 /BRK/, MB= MS= 5.5 SD 1.0 /CGS/.
- 25 eZ+ P 09 26 11, USCGS: H= 09 13 48.5, 40.1N, 143.3E, h= 31 km. Off east coast of Honshu, Japan. MB= 5.2 MS= 5.4 SD 0.9 /CGS/.
- 25 eZ- PKP 11 35 34, Z pPKP 11 36 00, USCGS: H= 11 15 46.3, 20.0S, 175.3W, h= 96 km. Tonga Islands. MB= 5.5 SD 0.9 /CGS/.
- 26 eZ PKP 09 45 39, USCGS: H= 09 25 58.7, 16.3S, 178.0E, h= 25 km. Fiji Islands region. M= 4.8- 5.4 /BRK/, MB= 5.7 MS= 5.1 SD 0.9 /CGS/.
- 26 Z Pg 21 25 /00/, iZ Sg 21 25 15.4, D= 120 km.
- 28 eZ PKIKP 12 10 13, eZ PKP2 12 10 21, eZ PP 12 13 56, D= 16650 km. USCGS: H= 11 50 30.4, 20.0S, 176.3E, h= 36 km. South of Fiji Islands. M= 6-6 1/4 /PAS/, 5.7-6.0 /BRK/, 5.7 /PAL/, 5 1/4-5 1/2 /GOL/, MB= 5.7 MS= 5.6 SD 1.1 /CGS/.
- 28 eZ 15 24 50, eZ 15 25 22, traces.
- 28 eZ+ P 20 55 20, eZ PP 20 58 56, eZ S 21 06 18, D= 10000 km. USCGS: H= 20 42 16.7, 15.6N, 122.0E, h= 15 km. Philippine Islands region, Felt at Manila. M= 6-6 1/4 /PAS/, 5.6-5.8 /BRK/, 6 /PAL/, 6 /GOL/, MB= 5.7 MS= 6.1 /CGS/.
- 29 eZ P 01 49 23, USCGS: H= 01 36 18.8, 15.4N, 121.9E, h= 17 km. Luzon. Philippine Islands. M= 5.3 SD 1.1 /CGS/.
- 29 eZ P 08 18 32, USCGS: H= 08 05 30.5, 15.5N, 122.1E, h= 22 km. Philippine Islands. MB= 5.1 SD 0.8 /CGS/.
- 29 eZ P 17 31 25.5,
- 29 eZ P 21 21 05.5, USCGS: H= 21 08 07.9, 15.9N, 121.7E, h= 39 km. Luzon, Philippine Islands. MB= 5.2 SD 1.0 /CGS/.
- 29 eZ P or PKP 22 57 42, eZ 22 58 05.
- 30 eZ Pn 10 03 05, eZ /Sg/ 10 03 48, D= 400 km.
- 30 eZ P 21 13 13,

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- 30 eZ /P/ 21 17 38, USCGS: H= 21 11 20.4, 34.9N, 59.5E, h= 33 km. Iran. Probably foreshock of Iranian quake of August 31, hypocenter poorly determined.
- 30 eZ P 22 10 49.3, USCGS: H= 22 02 19.8, 14.6N, 56.3E, h= 33 km. Arabian Sea. MB= 5.2 SD 1.2 /CGS/.
- 31 eZ PKP 09 08 34, USCGS: H= 08 48 44.7, 22.9S, 172.9E, h= 30 km. Loyalty Islands region. MB= 4.9 MS= 5.1 SD 1.2 /CGS/.
- 31 eZ P 10 54 35, eZNE 10 54 40, eNE S 11 00 17, D= 4060 km. BCIS: H= 10 47 39 /DECM/, 34.ON, 58.7E, Khorassan, Iran. Several thousands of killed and injured. Several dozens towns and villages destroyed, of which Kakh, Gonabad, Kashmar, Torbat e Jam, Gayen, /Press/, M= 7.5 /Uppsala/, 7.4 /Collm/, 7-7 1/4 /Roma/, 7.2 /Pasadena/, 7.1 /Strasbourg/, MLV= 7.1 /Moxa/, MLH= 7.1 /Moxa/, 6.8 /Praha/, MPPV= 6.8 /Collm/, MPV= 6.5 /Collm/, 6.3 /Bensberg/, USCGS: H= 10 47 37.4, 34.ON, 59.0E, h= 13 km. Iran, more than 11000 killed. 6000 injured, Kakhak destroyed. Hight destruction in surrounding area. Felt throughout Khorassan Province. M= 7-7 1/4 /PAS/, 7.7 /BRK/, 7 1/2 /GOL/, MB= 6.0 MS= 7.3 SD 1.5 /CGS/.
- 31 eZ P 11 16 17,
- 31 eZ P 11 41 31, USCGS: H= 11 34 32.9, 33.9N, 59.2E, h= 24 km. Iran, MB= 5.5 SD 0.9 /CGS/.
- 31 eZ P 14 13 18, BCIS: H= 14 06 15 /DECM/, 34.ON, 59.6E, Khorassan, Iran. USCGS: H= 14 06 16.1, 34.1N, 59.4E, h= 18 km. Iran. MB= 5.0 SD 1.1 /CGS/.
- 31 eZ P 18 16 38, USCGS: H= 18 06 35.7, 56.3N, 115.6E, h= 25 km. East of Lake Baikal. MB= 4.6 SD 0.8 /CGS/.
- 31 eZ PKIKP 20 13 41, eZ PKHKP 20 13 46, eZ PKP2 20 13 54, eZ pPKP 20 15 16, D= 16650 km. USCGS: H= 19 54 35.0, 18.3S, 177.7W, h= 379 km. Fiji Islands region. 5.7-6.1 /BRK/, MB= 5.0 SD 0.9 /CGS/.
- 31 eZ P or PKP 21 47 55,

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- 1 eZ Pn 01 21 23, iZ Pg 01 21 36.3, iZ Sn 01 22 07.4, iZ Sb 01 22 17.5, iZ Sg 01 22 25.6, D= 410 km. BCIS: H= 01 20 31 /DECM/, 43.3N, 17.5E, Yugoslavia. Mostar region. Felt 5 at Sarajevo. USCGS: H= 01 20 23.9, 43.ON, 07.4E, h= 15 km. Yugoslavia. Felt at Sarajevo. MB= 5.2 MS= 5.6 SD 1.0 /CGS/.
- 1 eZ P 04 58 44, USCGS: H= 04 48 52.2, 1.0S, 24.5W, h= 33 km. Central Mid-Atlantic ridge. MB= 5.2 MS= 5.6 SD 1.0 /CGS/.
- 1 eZ P 05 04 07,

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- 1 Z P 05 45 /00/, BCIS: H= 05 39 47 /DECM/, 39.2N, 46.2E, h= 45 + 12 km. Iran-USSR frontier region. Strongly felt at Russian Armenia, damage. USCGS: H= 05 39 46.0, 39.1N, 46.0E, h= 38 km. N.W. Iran-USSR border region. M= 5.1 SD 1.0 /CGS/.
- 1 eZ Pn 07 17 19, eZ Sn 07 18 07, iZ Sg 07 18 15.9, D= 440km.
- 1 eZ P 07 34 22, iZNE 07 34 27.5, eZNE 07 39 /46/, /D=4030 km /, BCIS: H= 07 27 28 /DECM/, 34.1N, 58.3E. Khorassan, Iran. Aftershock of the seisms of August 31, 1968 at 10 47. MLH= 6.4, MLV= 6.3 /Moxa/, M= 5.8 /Collm/, MPV= 5.6 /Moxa/. USCGS: H= 07 27 30.2, 34.0N, 58.2E, h= 15 km. More than 2000 killed and extensive property damage at Ferdows. M= 6.2/PAS/, 7.0 /BRK/, 6 1/4-6 1/2 /GOL/, MB= 5.9 MS= 6.3 SD 1.0 /CGS/.
- 1 eZ 07 40 44,
- 1 eZ 08 29 50, eZ 08 30 10, traces.
- 1 eZ 16 46 10, eZ /Sn/ 16 46 45.
- 1 eZ P 19 23 19, USCGS: H= 19 16 37.3, 34.2N, 58.3E, h=23km. Iran. MB= 5.0 SD 1.0 /CGS/.
- 1 eZ P 21 23 33, USCGS: H= 21 16 44.7, 34.4N, 58.0E, h=44km. Iran. MB= 4.8 SD 0.9 /CGS/.
- 2 eZ /P/ 12 42 28, eZ 12 42 44.
- 2 eZ P 23 07 05, USCGS: H= 23 03 42.1, 34.9N, 27.0E, h= 51 km. Eastern Mediterranean Sea. Athens: 23 03 44, 35.3N, 27.1E, ML= 4.4.
- 3 eZ P 05 35 43, USCGS: H= 05 23 30.0, 42.9N, 145.2E, h= 43 km. Hokkaido, Japan region. MB= 5.2 SD 0.9 /CGS/.
- 3 07 13 59, USCGS: H= 07 01 36.5, 37.9N, 141.7E, h= 79 km. Near east coast of Honshu, Japan. M= 5.3 /BRK/, MB= 5.4 SD 0.9 /CGS/.
- 3 eZ P 08 23 07, BCIS: H= 08 19 52 /DECM/, 41.9N, 32.3E, Black Sea. Near the coast of Turkey. Destructive seism at Bartin /41°38'N, 32°20'E/ and Amasra, 25 dead, 200 injured. Strongly felt at Bolu, Izmit, Adapazari, Kastomu. Numerous aftershocks. MLV= 6.2, MLH=6.4, MPV= 6.0 /Moxa/, USCGS: H= 08 19 52.2, 41.8N, 32.3E, h= 5 km. Turkey. 25 killed, 200 injured and considerable damage in Bartin area. M= 6 1/2 /PAS/, 6.7 /BRK/, 6 3/4 /PAL/, 6 1/2 /GOL/, MB= 5.7 MS= 6.6 SD 1.4 /CGS/.
- 3 eZ P 10 00 48, USCGS: H= 09 53 47.0, 33.8N, 59.2E, h= 16 km. Iran, MB= 5.0 SD 1.1 /CGS/.
- 3 eZ P 10 59 31, eZ /S/ 11 02 16, / D= 1630 km. /, BCIS: H= 10 56 14 /DECM/, 41.7N, 32.5E, Black Sea, near the coast

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- /cont./ of Turkey. USCGS: H= 10 56 14 /DECM/, 41.8N, 32.4E, h= 10 km. Turkey. MB= 4.5 SD 1.3 /CGS/.
- 3 eZ P 12 25 15,
- 3 eZ P 14 12 24.5, BCIS: H= 14 09 07 /DECM/, 41.8N, 32.6E, Black Sea, near the coast of Turkey. USCGS: H= 14 09 10.0, 41.7N, 32.4E, h= 14 km. Turkey. MB= 4.6 SD 1.3 /CGS/.
- 3 iZ- P 15 47 48.4, USCGS: H= 15 37 00.2, 20.6N, 62.2W, h=33 km. North Atlantic Ocean. Felt at San Juan, Puerto Rico. M= 5-5 1/4 /PAL/, MB= 5.5 MS= 5.9 SD 1.1 /CGS/.
- 3 eZ- P 18 56 00, USCGS: H= 18 48 15.7, 36.2N, 69.2E, h= 75 km. Hindu Kush region. MB= 5.3 SD 1.0 /CGS/.
- 3 Z P 19 08 /00/, USCGS: H= 18 58 08.3, 1.0N, 28.2W, h= 33 km. Central Mid-Atlantic ridge, MB= 4.7 SD 0.9 /CGS/.
- 3 eZ P 22 34 21, USCGS: H= 22 22 06.9, 29.3N, 139.3E, h=410 km. South of Honshu, Japan. MB= 4.9 SD 0.4 /CGS/.
- 3 eZ PKHKP 23 49 49, eZ PKIKP 23 49 58.5, USCGS: H= 23 30 13.6, 17.7S, 167.7E, h= 11 km. New Hebrides Islands region. Felt at Port Vila. MB= 4.9 SD 1.4 /CGS/.
- 4 eZ P 10 46 19, USCGS: H= 10 34 28.4, 53.2N, 159.7E, h=30 km. Near coast of Kamchatka. MB= 4.7 MS= 4.2 SD 0.8 /CGS/.
- 4 eZ P 11 26 35, eZ 11 27 /00/, BCIS: H= 11 19 28 /DECM/, 33.6N, 59.7E, Khorassan, Iran. USCGS: H= 11 19 35.6, 33.9 N, 59.1E, h= 25 km. Iran. MB= 5.1 SD 0.9 /CGS/.
- 4 eZ 14 55 14, eZ Sn 14 56 46.
- 4 eZ P 23 31 /47/, obscured by microseisms. BCIS: H= 23 24 50 /DECM/, 34.1N, 58.6E, Khorassan, Iran. MLH= 4.9/Pruhonice/. USCGS: H= 23 24 47.2, 34.0N, 58.2E, h= 15 km. Iran, damage at Ferdoose. MB= 5.4 MS= 5.2 SD 0.8 /CGS/.
- 5 eZ P 04 13 49, USCGS: H= 04 05 57.4, 49.8N, 78.1E, h= 0km. Eastern Kazakh SSR, MB= 5.5 SD 1.0 /CGS/. BCIS: H= 04 06 00, 78.0E, 50.0N, Kazakstan, region of Semipalatinsk. Probably explosion, M= 5.2 /Uppsala/.
- 5 eZ /Pn/ 18 45 47, Z 18 46 /00/, traces. USCGS: H= 18 42 17.6, 34.0N, 26.7E, h= 94 km. Crete. Athens: 18 42 33, 36.3 N, 26.7E, ML= 4.1.
- 5 eZ 20 02 /13/, eZ Sn 20 02 51, traces.
- 6 eZ PKHKP 03 41 30, eZ PKIKP 03 41 39, USCGS: H= 03 21 56.1, 17.8S, 167.8E, h= 24 km. New Hebrides Islands. Felt at Port Vila. MB= 5.1 SD 0.9 /CGS/.

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- 6 eZ PKHKP 07 55 39, eZ PKIKP 07 55 47, USCGS: H= 07 36 06.4, 17.8S, 167.8E, h= 28 km. New Hebrides Islands. Felt at Port Vila, M= 4.8 /BRK/, MB= 5.3 MS= 5.1 SD 1.0 /CGS/.
- From September 6, at 15 44 to September 6, at 18 57 station not operating.
- 6 eZ P 19 35 19, USCGS: H= 19 22 47.8, 31.ON, 131.9E, h= 39 km. Kyushu, Japan. M= 5.4 /PAL/, MB= 5.7 MS= 5.7 SD 1.1 /CGS/.
- 6 eZ Pn 20 32 41, eZ /Sn/ 20 33 38, eZ 20 33 51, BCIS: H= 20 31 20 /DECM/, 44.1N, 8.3E, Off coast of Liguria. East of Albenga. Italy. ML= 3.6 /Genova/.
- 7 eZ Pn 16 51 10, eZ Pg 16 51 30, iZ Sn 16 52 04.1, D= 520km. BCIS: H= 16 19 58 /DECM/, 44.1N, 8.3E, Off coast of Liguria. East of Albenga, Italy. ML= 4.1 /Genova/.
- 7 eZ 20 48 50, eZ Sn 20 49 21,
- 7 eZ PKP 23 35 13.5, iZ 23 35 45, USCGS: H= 23 15 42.7, 17.9 S, 168.3W, h=N, New Hebrides Islands. MB= 4.6 SD 1.0 /CGS/.
- 8 eZ PKHKP 00 36 13, eZ PKIKP 00 36 18, USCGS: H= 00 16 38.0, 17.6S, 167.8E, h= 20 km. New Hebrides Islands. Felt at Port Vila. MB= 5.0 SD 1.0 /CGS/.
- 8 eZ P 02 13 48, USCGS: H= 02 02 23.6, 45.4N, 142.7E, h= 326 km. Hokkaido, Japan region, MB= 4.7 SD 1.2 /CGS/.
- 8 eZ PKHKP 13 49 39, eZ PKIKP 13 49 46, USCGS: H= 13 30 05.9, 17.5S, 167.8E, h= 28 km. New Hebrides Islands. Felt at Port Vila. MB= 4.7 SD 1.1 /CGS/.
- 8 iZ PKP 15 31 11.5, USCGS: H= 15 12 23.8, 3.7S, 143.0E, h=29 km. Near north coast of New Guinea. Felt in Wewak area. M= 6.1 /PAS/, 6.7 /PAL/, 6.0 /GOL/, MB= 6.0 MS= 6.1 SD 1.0 /CGS/.
- 8 eZ PKP 19 19 48, USCGS: H= 18 59 59.3, 21.8S, 139.2W, h= 0 km. Tuamotu Archipelago region. MB= 4.7 SD 0.8 /CGS/.
- 8 eZ P 20 22 03, USCGS: H= 20 09 51.2, 46.ON, 151.4E, h=31km. Kurile Islands. MB= 5.0 SD 0.8 /CGS/.
- 8 eZ 22 07 10, eZ /Sg/ 22 07 50, traces.
- 9 eZ P 00 48 34, USCGS: H= 00 35 18.4, 8.7S, 74.5W, h= 144km. Peru-Brazil border region. MB= 5.3 SD 0.9 /CGS/.
- 9 eZ P 00 50 56, USCGS: H= 00 37 43.2, 8.7S, 74.5W, h= 120km. Peru-Brazil border region. M= 6.3 /PAS/, MB= 6.0 SD 0.8 /CGS/.

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- 9 eZ P 02 31 11.5, USCGS: H= 02 20 57.9, 66.1N, 142.1E, h= 33 km. Eastern Siberia, MB= 5.1 SD 1.0 /CGS/.
- 9 eZ P 05 06 30, USCGS: H= 04 54 46.0, 59.ON, 149.2W, h= 17km. Kenai Peninsula, Alaska. MB= 5.2 SD 0.9 /CGS/.
- 10 eZ Pn 12 56 15, eZ /Sn/ 12 57 15, D= 560 km. Felt at Kragujevac 4⁰, Svetozarevo 3⁰-4⁰ /Beograd/.
- 10 iZ Sg 17 04 27.2, local, very weak.
- 10 eZ 17 25 51, eZ 17 26 28, traces.
- 10 Z P 20 39 /OO/, BCIS: H= 20 32 03 /DECM/, 34 1/2N, 58 1/2E, Khorassan, Iran. USCGS: H= 20 31 58.6, 34.ON, 59.4E, h= 18 km. Iran, felt by Field Party at Gonabad. MB= 4.7 SD 1.0 /CGS/-
- 10 eZ PKP 23 10 57, USCGS: H= 22 51 14.1, 15.1S, 177.4W, h= 33 km. Fiji Islands region, MB= 5.0 SD 0.9 /CGS/.
- 11 eZ PKP 18 45 25, eZ /PP/ 18 46 26, USCGS: H= 18 26 36.8, 43.OS, 75.2W, h= 31 km. Off coast of Southern Chile, MB= 5.7 MS= 5.5 SD 1.3 /CGS/.
- 11 eZ P 19 24 14, eZ PP 19 25 37, D= 4000 km. BCIS: H= 19 17 05 /DECM/, 33.5N, 59.6E, Khorassan, Iran. MLH= 6.3 /Pruhonic/, 5.8 /Collm/, USCGS: H= 19 17 12.9, 33.9N, 59.4E, h= 33 km. Iran. MB= 5.2 MS= 5.4 SD 1.7 /CGS/.
- 11 eZ P 21 59 52, USCGS: H= 21 47 21.9, 24.ON, 122.3E, h= 42km. Taiwan region. MB= 5.0 SD 1.0 /CGS/.
- 12 eZ 00 53 19, eZ /Sn/ 00 54 24, traces.
- 12 eZ P 13 48 54, USCGS: H= 13 36 27.5, 39.7N, 143.6E, h= 12km. Off east coast of Honshu, Japan. MB= 5.2 SD 1.0 /CGS/.
- 12 eZ P 15 45 12, USCGS: H= 15 36 48.8, 39.8N, 77.8E, h= 8 km. Southern Sinkiang Prov., China. MB= 4.9 SD 1.2 /CGS/.
- 12 iZ- PKIKP 23 02 47.2, iZ PKHKP 23 02 55.3, iZ PKP2 23 03 10.2 eZ pPKP 23 05 22, D= 17000 km. USCGS: H= 22 44 06.5, 21.6S, 179.4W, h= 635 km. Fiji Islands region. MB= 5.9 SD 1.0 /CGS/.
- 13 eZ P 07 43 47, USCGS: H= 07 30 43.6, 15.1N, 93.9W, h= 34km. Near coast of Chiapas, Mexico. MB= 5.1 MS= 5.4 SD 1.1 /CGS/.
- 13 eZ PKP 12 33 11, USCGS: H= 12 13 38.5, 18.6S, 168.6E, h=47 km. New Hebrides Islands. Felt at Port Vila.
- 13 eZ PKP 13 09 13, USCGS: H= 12 49 54.8, 11.1S, 164.6E, h=59 km. Santa Cruz Islands region. MB= 5.4 SD 0.9 /CGS/.
- 14 eZ Pg 01 26 /27/, eZ 01 26 39, iZSg 01 26 47.8, / D= 170km/.

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- 14 Z P 01 45 /00/, USCGS: H= 01 38 44.8, 57.9N, 32.6W, h= 51 km. North Atlantic Ocean. MB= 5.3 MS= 4.7 SD 1.1 /CGS/.
- 14 eZ P 13 55 22, eZ PP 13 56 47, D= 4000 km. BCIS: H= 13 48 33 /DECM/, 28.6N, 53.0E, h=normal. Farsistan, Iran. MPH= 6.2, MLH= 6.0 /Collm/, 5.8 /Pruhonice/, USCGS: H= 13 48 31.2, 28.4N, 53.1E, h= 33 km. Southern Iran, many injured and many houses damaged in Jarom and Mobarakabad, MB= 5.8 MS= 5.6 SD 1.5 /CGS/.
- 14 eZ P 19 27 14, BCIS: H= 19 20 15 /DECM/, 28.1N, 53.2E, Farsistan, Iran. USCGS: H= 19 20 22.7, 28.4N, 53.2E, h= 44km, Southern Iran, MB= 5.1 SD 0.8 /CGS/.
- 15 eZ P 04 59 16, eZ S 05 01 41, D= 1450 km. BCIS: H= 04 56 05 /DECM/, 35.0N, 25.2E, h= 60 km. Crete. USCGS: H= 04 55 59.5 34.7N, 25.1E, h= 33 km. Crete. MB= 4.9 SD 1.5 /CGS/.
- 15 eZ+P 11 02 32, eZ 11 04 05, eZ PP 11 05 41, D= 9100 km. US CGS: H= 10 50 11.8, 40.9N, 143.2E, h= 15 km. Off coast of Honshu, Japan. MB= 5.4 MS= 5.6 SD 1.0 /CGS/.
- 16 eZ Pn 02 58 06, eZ /Sn/ 02 59 38, eZ 03 00 04,
- 16 eZ PKP 14 14 30, Obscured by microseisms. USCGS: H= 13 55 36.1, 6.1S, 148.7E, h= 59 km. New Britain region. Felt on eastern New Guinea, and western New Britain. M= 6 1/4- 6 1/2 /PAS/, 6.3-6.7 /BRK/, 6-6 1/4 /PAL/, MB= 5.8 SD 1.3 /CGS/.
- 17 iZ+ Pn 12 17 01.1, iZ Sn 12 17 23.8, iZ Sg 12 17 29.5, D= 200 km. BCIS: H= 12 16 32 /DECM/, 44.9N, 12.9E, Adriatic Sea, off the delta of river Po. USCGS: H= 12 16 35.3, 45.2 N, 12.7E, h= 43 km. Northern Italy.
- 17 eZ 18 08 16, eZ PKIKP 18 09 32, USCGS: H= 17 49 47.6, 15.0 S, 175.7W, h= 17 km. Tonga Islands. M= 5.4- 5.6 /BRK/, 5 1/2 -5 3/4 /GOL/, MB= 5.2 MS= 5.6 SD 1.4 /CGS/.
- 17 eZ 19 31 32, traces.
- 17 eZ P 21 17 48, BCIS: H= 21 13 52 /DECM/, 35.3N, 31.2E, h= normal. Mediterranean Sea, northwest of Cyprus. MB= 4.6 SD 1.3 /CGS/.
- 18 eZ P or PKP 01 50 07,
- 18 eZ 03 02 46, eZ 03 03 06, eZ 03 03 15, traces.
- 18 eZ Pn 04 05 13, eZ /Sn/ 04 07 50, /D= 1570 km. / BCIS: H= 04 01 59 /DECM/, 34.7N, 25.1E, h= 50 km + 15 km. Mediterranean Sea. South of Crete. MLH= 4.5 /Collm/, USCGS: H= 04 01 59.4, 34.8N, 25.1E, h= 35 km. Crete. MB= 4.6 SD 1.8 /CGS/.

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- 18 eZ Pn 04 48 /35/, Z 04 49 /00/, traces.
- 18 eZ P 06 21 33, BCIS: H= 06 17 40 /DECM/, 39.8N, 40.3E, Eastern Anatolia. North Anatolian rift, east of Erzinean. USCGS: H= 06 17 04.9, 39.8N, 40.2E, h= 37 km. Turkey, MB= 4.6 SD 1.8 /CGS/.
- 18 eZ P 07 45 10, USCGS: H= 07 37 21.8, 37.2N, 71.9E, h= 123 km. Afghanistan-USSR border region. MB= 5.0 SD 0.9 /CGS/.
- 18 eZ PKHKP 12 03 18, eZ PKIKP 12 03 25, D= 16000 km. USCGS: H= 11 43 45.6, 18.2S, 167.1E, h= 33 km. New Hebrides Islands. M= 6.4-6.6 /BRK/, MB= 5.7 SD 1.1 /CGS/.
- 18 eZ /Pn/ 19 31 06, eZ 19 31 17, eZ 19 31 42, weak.
- 19 eZ P 11 21 29, eZ 11 21 52, USCGS: H= 11 13 07.4, 30.7N, 41.9W, h= 33 km. North Atlantic ridge. M= 5 1/2 -5 3/4 /GOL/, MB= 4.9 MS= 5.4 SD 1.0 /CGS/.
- 19 eZ P 22 19 31, eZ PP 22 20 55, eZ S 22 25 47, D= 4000 km. USCGS: H= 22 12 38.2, 28.4N, 53.2E, h= 34 km. Southern Iran, MB= 5.1 SD 0.8 /CGS/.
- 19 eZ P 22 30 00, weak.
- 19 eZ P 23 42 49, USCGS: H= 23 35 56.0, 28.3N, 53.1E, h= 33km. Southern Iran, MB= 4.8 SD 1.4 /CGS/.
- 20 eiZ+ P 06 11 28, eZ PP 06 14 15, eZ S 06 20 46, D= 810km. USCGS: H= 06 00 03.5, 10.7N, 62.7W, h= 107 km. Near coast of Venezuela. 2 killed, 37 injured. Damage in state Sucre Venezuela and on Trinidad also felt in northern Guyana, possible tsunami north coast of Trinidad. M= 7 /PAS/, 6.1 - 6.3 /BRK/, 6 1/2 /GOL/, MB= 6.2 SD 1.2 /CGS/.
- 20 eZ P or PKP 06 39 02, eZ 06 39 38,
- 20 eZ P 14 06 07, USCGS: H= 13 53 35.9, 40.6N, 143.5E, h= 25 km. Off coast of Honshu, Japan. Felt in northern Japan. MB= 4.9 SD 1.1 /CGS/.
- 20 eZ PKP 18 49 02, USCGS: H= 18 29 09.8, 28.1S, 176.7W, h= 70 km. Kermadec Islands, M= 5.0-5.5 /BRK/, 5 1/2-5 3/4 /GOL/ MB= 5.3 SD 1.2 /CGS/.
- 20 eZ Pn 20 29 49, eZ Sn 20 30 10, d= 190 km.
- 20 Z P 22 38 00, USCGS: H= 22 25 37.1, 36.8N, 138.1E, h= 59km. Honshu, Japan. MB= 5.0 SD 1.1 /CGS/.
- 20 eZ P 23 14 28, USCGS: H= 23 02 43.5, 13.7S, 66.1E, h= 47km. Mid-Indian Rise. MB= 5.0 SD 1.7 /CGS/.
- 21 iZ P 11 07 52.4, BCIS: H= 11 05 53 /DECM/, 45. 1/4N, 26 3/4

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- /cont./ E, h= 175+ 30 km. Rumania, Vrancea region. USCGS: H= 11 05 52.9, 45.7N, 26.6E, h= 128 km. Rumania MB= 4.3 SD 0.9 /CGS/.
- 21 eZ+P 13 18 09.5, eZ PP 13 21 06, eZ S 13 28 12, D= 8920 km. USCGS: H= 13 05 58.2, 42.2N, 142.6E, h= 33 km. Hokkaido, Japan region. M= 6.2 /PAS/, 5.7-6.2/BRK/, 6 1/2-6 3/4 /GOL/ MB= 5.9 MS= 6.4 SD 1.1 /CGS/.
- 22 eZ PKIKP 08 19 14, iZ PKHKP 08 19 15.8, eZ PKP2 08 19 27, D= 16800 km. USCGS: H= 08 00 32.8, 18.1S, 178.6N, h=630 km. Fiji Islands region. MB= 4.8 SD 0.9 /CGS/.
- 23 eZ P 05 16 13, USCGS: H= 05 03 50.0, 40.3N, 143.5E, h= 30 km. Off coast of Honshu, Japan. MB= 4.8 MS= 5.2 SD 0.9/CGS/.
- 23 eZ 07 27 31, eZ 07 28 09, traces.
- 23 eZ P 21 32 11.5, eZ 21 32 18, BCIS: H= 21 27 21, /DECM/, 36.2N, 40.9E, Syria, destruction at Kamisli /37°0N, 41.3°E/ Felt at northern Syria /Ksara/, and in Turkey at Nusaybin, Mardin., Viransehir /Çinè/. USCGS: H= 21 27 19.9, 36.4N, 40.7E, h= 31 km. Jordan-Syria region. Destruction at at Kamisli, Syria. Felt in northwest Syria and southeast Anatolia. MB= 4.4 SD 0.7 /CGS/.
- 24 eZ+ P 03 47 12, eZ /PP/ 03 50 25, eZ PPP 03 52 11, D=9100 km. USCGS: H= 03 34 48.5, 40.2N, 143.7E, h= 22 km. Off east coast of Honshu, Japan. MB= 5.1 MS= 5.1 SD 1.0 /CGS/.
- 24 eZ P 04 24 30, eZ S 04 28 23, D= 2360 km. BCIS: H= 04 19 57 /DECM/, 39.1N, 40.1E, Eastern Anatolia. Destruction at Kigi /39°19'N, 40°21'E/, 2 dead, 40 injured. Largely felt in provinces of Tunceli, Diyarbakir, Mardin, Bingöl and Elazig. USCGS: H= 04 19 54.5, 39.2N, 40.2E, h= 14 km. Turkey. 2 killed, 40 injured. at Elazig and Bingöl, damage in many areas of western Kurdistan. MB= 5.1 SD 1.2 /CGS/.
- 24 eZ+ P 04 58 27, USCGS: H= 04 46 03.6, 40.3N, 143.6E, h=26 km. Off east coast of Honshu, Japan. MB= 5.0 SD 0.8 /CGS/.
- 25 eZ+ PKP 00 34 25, USCGS: H= 00 15 39.5, 18.0S, 178.5W, h= 582 km. Fiji Islands region. MB= 4.7 SD 1.0 /CGS/.
- 25 eZ Pn 06 39 /49/, eZ 06 39 37,
- 25 eZ PKP 07 23 26, eZ 07 23 33, eZ 07 23 43, USCGS: H= 07 02 51.8, 46.4S, 166.8E, h= N, Off W. coast of S. Island, N.Z. Felt extensively in south New Zealand. MB= 5.5 MS= 0.3 SD 1.7 /CGS/.
- 25 Z P 08 20 /00/, USCGS: H= 08 16 30.7, 35.4N, 28.0E, h= 33 km. Eastern Mediterranean Sea.
- 25 eZ P 10 51 26, eZ PP 10 54 49, eZ S 11 01 59, D= 9900 km.

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- /cont./ USCGS: H= 10 38 38.4, 15°6N, 92.6W, h= 138 km. Mexico-Guatemala border region, at least 15 dead, 500 injured and heavy property damage in southern Chiapas. Possible 7 foot tsunami at Salina Cruz. M= 6/PAS/, 5.8-6.2/BRK/, 6 1/4 -6 1/2 /PAL/, 5 1/2-5 3/4 /GOL/, MB= 5.7 SD 1.1 /CGS/.
- 25 eZ 11 16 48, Z /Sn/ 11 17 /00/, weak.
- 25 eZ PKIKP 14 53 47, eZ PKHKP 14 53 51, eZ pPKP 14 54 49, US CGS: H= 14 34 22.6, 19.3S, 175.9W, h= 230 km. Tonga Islands. MB= 5.0 SD 0.7 /CGS/.
- 25 eZ P 20 56 47, BCIS: H= 20 52 14 /DECM/, 39.2N, 40.2E, Eastern Anatolia. MLH= 4.5 /Pruhonice/. USCGS: H= 20 52 15.9, 39.2N, 40.2E, h= 47 km. Turkey. MB= 5.1 SD 1.1 /CGS/.
- 26 eZ+P 00 54 14, eZ PP 00 56 56, eZ S 01 00 37, D= 4780 km. USCGS: H= 00 46 13.8, 33.7N, 69.9E, h= 45 km. Afghanistan. MB= 5.2 SD 1.0 /CGS/.
- 26 eZ PKIKP 02 58 41, eZ PKHKP 02 58 48, eZ PKP2 02 58 59, eZ pPKP 03 01 05, D= 16900 km. USCGS: H= 02 39 56.5, 19.3S, 177.6W, h= 560 km. Fiji Islands region. MB= 5.2 SD 0.8 /CGS/.
- 26 eZ P 06 45 39, eZ 06 45 44, BCIS: H= 06 42 01 /DECM/, 38.7N, 32.9E, Central Anatolia. USCGS: H= 06 42 01.2, 38.6N, 33.0E, h= 34 km. Turkey. Aftershock of 24th Sep. Earthquake, further property damage at Kigi. MB= 4.8 SD 1.1 /CGS/.
- 26 eZ P 08 20 18, USCGS: H= 08 06 57.4, 5.7S, 105.5E, h= 33 km. Sunda Strait. MB= 5.1 SD 1.0 /CGS/.
- 26 eZ PKIKP 09 00 02, iZ PKHKP 09 00 07.9, eZ PKP2 09 00 14, eZ pPKP 09 01 07, D= 16900 km. USCGS: H= 08 41 22.0, 17.7S, 178.5W, h= 578 km. Fiji Islands region. MB= 5.1 SD 1.0 /CGS/.
- 26 eZ PKIKP 14 57 08, eZ PKHKP 14 57 14, eZ PKP2 14 57 35, eZ pPKP 14 58 16, eZ PP 15 00 19, D= 17000 km. USCGS: H= 14 37 46.2, 20.9S, 177.0W, h= 251 km. Fiji Islands region. M= 6-6 1/4 /PAS/, 6.0-6.4 /BRK/, MB= 5.8 SD 1.0 /CGS/.
- 26 eZ+ PKIKP 18 22 47, eZ PKP2 18 23 36, eZ PP 18 27 21, eZ SKS 18 29 31, eZ PPP 18 31 /00/, D= 17980 km. USCGS: H= 18 02 50.1, 30.5S, 178.2W, h= 33 km. Kermadec Islands region. Felt on Radul. MB= 5.8 MS= 6.8 SD 1.0 /CGS/.
- 27 eZ P 04 13 21, eZ PKP 04 17 17, eZ PP 04 18 04, eZ PPP 04 20 36, eZ SKS 04 23 45, D= 12500 km. USCGS: H= 03 58 55.1 6.8S, 129.1E, h= 127 km. Banda Sea. M= 5 3/4-6 /PAL/, MB= 6.1 SD 1.1 /CGS/.
- 27 eZ-P 10 45 45, iZ pP 10 46 11.0, eZ PP 10 47 25, D= 4800km. USCGS: H= 10 37 55.9, 37.8N, 72.3E, h= 119 km. Tadzhik SSR. MB= 5.2 SD 1.0 /CGS/.

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- 27 eZ Pn 13 16 23, eZ 13 17 39, weak.
- 27 eZ+ PKIKP 17 01 07, eZ PKP2 17 01 54, eZ PP 17 05 37, eZ PPP17 09 25, D= 17980 km. USCGS: H= 16 41 07.8, 30.7N, 178.2 W, h= 33 km. Kermadec Islands region. M= 6 /PAS/, 5.7-5.8 /BRK/, MB= 5.4 SD 1.5 /CGS/.
- 27 eZ PKP 19 25 34, eZ PP 19 27 56, D= 13200 km. USCGS: H= 19 06 42.2, 3.7S, 143.3E, h= 7 km. Near north coast of New Guinea. Felt in Sepik District. M= 6.2 /PAS/, 6-6 3/4 /BRK/, 5 3/4- 6 /PAL/, MB= 5.9 MS= 6.5 SD 1.2 /CGS/.
- 27 eZ PKP 23 07 35, USCGS: H= 22 47 36.3, 30.9S, 177.7W, h= N, Kermadec Islands region. MB= 4.6 SD 1.1 /CGS/.
- 28 eZ Pn 00 55 54, eZ Sn 00 55 56, D= 1200 km. BCIS: H= 00 53 26, /DECM/, 40.4N, 26.7E, western Turkey, near Dardanelles. Felt in northwestern Turkey /Istanbul K./, ML= 4.7 /Athens/. USCGS: H= 00 53 25.9, 40.5N, 26.4E, h= 28 km. Turkey. Felt in northwest Turkey, MB= 4.4 SD 1.6 /CGS/.
- 28 eZ P 09 33 50, USCGS: H= 09 25 36.6, 27.6N, 66.8E, h= N, West Pakistan, MB= 5.2 SD 1.1 /CGS/.
- 28 eZ P 10 07 49, USCGS: H= 09 54 45.9, 15.9N, 122.6E, h= 27 km. Philippine Islands region. Felt at Manila. MB= 5.2 SD 0.5 /CGS/.
- 28 eZ P 14 07 15, eZ PcP 14 07 21, eZ pP 14 07 33, eZ PP 14 11 33, D= 11100 km. USCGS: H= 13 53 35.3, 13.2S, 76.4W, h= 70 km. Near coast of Peru. Slight damage at Lima. M= 6 /PAS/, 6.5-6.6/BRK/, 5 1/2-5 3/4 /PAL/, MB= 6.0 SD 1.1 /CGS/.
- 29 eZ+P 01 42 18, USCGS: H= 01 32 52.0, 7.6N, 59.5E, h= N, Carlsberg ridge. MB= 4.7 SD 1.4 /CGS/.
- 29 eiZ+ P 03 50 50, eZ PP 03 52 26, D= 4700 km. BCIS: H= 03 43 00, 50.0N, 78.0E, Kazakhstan, region of Semipalatinsk. Probably artificial. m= 6.2 /Uppsala/, mb = 5.8 /Ifrane/, USCGS: H= 03 42 57.5, 49.8N, 78.2E, h= 0 km. Eastern Kazakh SSR, MB= 5.8 SD 1.0 /CGS/.
- 29 eZ PKP 13 02 52, eZ PP 13 06 19, D= 15800 km. USCGS: H= 12 43 39.9, 15.5S, 167.3E, h= 190 km. New Hebrides Islands. MB= 4.6 SD 1.1 /CGS/.

Ljubljana, March 27, 1970

 Interpretation: M. Hržič
Redaction: V. Ribarič

University of Ljubljana
Astronomical and Geophysical Observatory

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

VII—IX 1968

Ljubljana 1969

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.Box 01-20, Yugoslavia

1968

P R E L I M I N A R Y S E I S M O L O G I C A L

B U L L E T I N

/ July - September 1968 /

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.Box 01-20, Yugoslavia

1968

PRELIMINARY SEISMOLOGICAL BULLETIN
from July 1, to September 30, 1968

Station: Ljubljana / LJU / - Coordinates: $46^{\circ} 14^{\circ}$ 02.6° N Lat.
 32.0° E Long.
Geocentric direction cosines: $a = + 6743$, $b = + 1748$, $c = + 7175$
 $d = - 8$, $h = - 4$
Height above sea level: 396 m.
Lithologic fundation: sandstone /carbon/.

Instruments:

Wiechert, horizontal astatic seismograph, $M = 200$ kg, mechanical registration, 16-18 mm/min.

Constants / 31.1.1966 /:				
Component	To	v:l	r/T ₀ ²	V
N-S	5.0	2.20	0.0043	69
E-W	4.9	2.37	0.0058	67

Hiller-Stuttgart, vertical component Z with galvanometrical recording. $T_0 = 1.5$ sec, $T_g = 1.5$ sec. $D_1 = D_2 = 1$, $V_{max} = 10150x$,

Note: Periods of seismic waves are given in seconds, the amplitudes in microns. Sign. + means compression or movement of ground towards north or east, sign. - means dilatation or movement of ground towards south or west. All times are given in GMT. Time signals are received one or two times daily and are registered on a chronograph. Wherever possible time readings up to one tenth of a second are given. Macroseismic data refer to Mercalli-Cancani-Sieberg scale / MCS /, macroseismic rays are given in kilometers. Abbreviation DECM means: Determination was made by electronic computer.

July 1968

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- 1 eZ- P 04 07 02.6, BCIS: H= 04 01 51 /DECM/, 48.ON, 47.9E, USSR, north of Caspian Sea. $m = 6.6$ /Uppsala/, artificial. USCGS: H= 04 02 01.7, 47.9N, 48.0E, $h = 33$ km. Western Kazakh SSR, $M = 5.5$ SD 0.9 /CGS/.
- 1 iZ+ P 10 57 38.1, eZ PF 11 01 55, D= 9400 km. USCGS: H= 10

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- /cont./ 45 11.9, 36.ON, 139.3E, h= 67 km. Honshu, Japan. 1 killed, 9 injured and minor damage in Tokyo area. M= 5.9 SD 1.2 /CGS/.
- 1 iZ Pn 11 08 43.8, iZ Pg 11 08 53.7, eiZ Sn 11 09 34, D= 480 km.
- 2 eZ 09 39 02, eZ 09 39 11, traces.
- 2 eZ P or PKP 17 01 49
- 2 eZ /P/ 17 59 14, eZ 18 00 23, traces.
- 2 eZ P or PKP 21 25 07
- 3 eZ P or PKP 15 13 34
- 4 eZ- P 00 46 40, USCGS: H= 00 34 13.2, 34.SN, 139.7E, h=104 km. Near coast of Honshu, Japan. M= 5.0 SD 1.0 /CGS/.
- 4 eZ P 07 24 32, eZ PP 07 27 55, D= 9400 km. USCGS: H= 07 12 24.2, 43.9N, 147.2E, h= 80 km. Kurile Islands. M= 5.0 SD 1.2 /CGS/.
- 4 eZ Pn 21 50 23, iZ Pg 21 50 49.4, eZEN Sn 21 52 21, eEN Sg 21 53 30, D= 1170 km. BCIS: H= 21 47 49 /DECM/, 37.6N, 23.2 E, Greece, eastern coast of Peloponissos. 100 houses damaged. Felt 5^o at Athens and at Corinth areas. MB= 5.3 SD 1.2 /CGS/.
- 4 eZ P 23 21 19, BCIS: H= 23 17 53 /DECM/, 35.3N, 27.9E, h= 50 km. Mediterranean Sea. South of Rhodes. Aftershock of the seisms of May 30, 1968 at 17 40. USCGS: H= 23 17 52.9, 35.4N, 27.9E, h= 42 km. Dodecanese Islands. h=42 km. M= 4.4 SD 1.3 /CGS/.
- 5 eZ P 00 58 19, USCGS: H= 00 45 17.2, 34.1N, 119.7W, h= 6 km. Southern California 34°07.0'N, 119°42.1'W, M= 5.2, hypocenter and magnitude by Pasadena. Minor damage in the Santa Barbara area. MB= 5.7 SD - /CGS/.
- 5 izNE Pg 08 40 00.3, izNE! 08 40 02.0, D= 12-15 km. BCIS: H= 08 39 59, macroseismic epicenter: 46°05'N, 14°38'E, Slovenia, Yugoslavia. Io= 5^o. Felt 5^o at Vevče, 4^o-5^o at Domžale and Ljubljana. 3^o at Litija, 2^o at Kranj.
- From July 5, 1968 at 10 07 to July 7, 1968, at 07 57 station not operating.
- 7 eZ P 13 28 40, USCGS: H= 13 16 14.2, 39.3N, 142.9E, h= 24 km. Near east coast of Honshu, Japan. MB= 5.1 SD 1.4 /CGS/.
- 7 eZ PKIKP 14 43 24, eZ /PKP2/ 14 43 40, USCGS: H= 14 23 33.6, 22.2S, 175.1W, h= 33km. Tonga Islands region. MB= 5.3 SD 1.2 /CGS/.

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- 8 eZ P 00 01 31, USCGS: H= 23 48 08.2, 5.8S, 77.1N, h= 27 km. Northern Peru. Felt at Moyabamba. MB= 5.5 MS= 5.2 SD 1.0 /CGS/.
- 8 eZ PKIKP 05 16 41, eZ PKHKP 05 16 45, eZ pPKP 05 18 00, USCGS: H= 04 57 22, 18.2S, 175.5W, h= 246 km. Tonga Islands. MB= 4.6 SD 0.8 /CGS/.
- 8 eZ Pn 05 43 14, eZ 05 44 04, eZ /Sg/ 05 44 12, BCIS: H= 05 41 34 /DECM/, 46.2N, 7.6E, Valley of Anniviers, Valais, Switzerland.
- 8 eZ /Pn/ 05 46 48, eZ Sn 05 47 43, /D= 510km/. BCIS: H= 05 45 34 /DECM/, 46.2N, 7.6E, Valley of Anniviers, Valais, Switzerland. USCGS: H= 05 45 35, 46.3N, 7.7E, h= 33 km. Switzerland, MB= 4.1 SD 1.0 /CGS/.
- 8 eZ P 11 34 40, USCGS: H= 11 27 24, 28.ON, 57.OE, h= 15 km. Southern Iran. MB= 0.7 /CGS/.
- 8 eZ PKIKP 12 28 10, eZ PKHKP 12 28 19, eZ PKP2 12 28 35, eZ pPKP 12 30 27, USCGS: H= 12 09 28.4, 22.2S, 179.8W, h= 622 km. South of Fiji Islands. MB= 4.9 SD 0.6 /CGS/.
- 8 eZ PKIKP 14 26 10, eZ PKHKP 14 26 17, USCGS: H= 14 07 05, 19.4S, 177.4W, h= 356 km. Fiji Islands, MB= 4.3 SD 1.5/CGS/.
- 8 Z P 17 22 /00/, BCIS: H= 17 15 21 /DECM/, 29.6N, 51.3E, Central Iran, Faristan. USCGS: H= 17 15 28.3, 29.7N, 51.1 E, h= 44 km. Southern Iran. MB= 4.9 MS= 5.1 SD 1.0 /CGS/.
- 8 eZ Pn 17 44 21, iZ 17 44 32.7, eZ Sn 17 46 43, D= 1420 km. BCIS: H= 17 41 09 /DECM/, 34.7N, 25.1E, h= 75 km. Mediterranean Sea, South of Crete. MLH= 4.8 /Pruhonice/. USCGS: H= 17 41 05.8, 34.4N, 25.2E, h= 33 km. Crete, MB= 5.3 SD 1.1 /CGS/.
- 8 eZ Pn 18 21 37, Z /Sn/ 18 24 /00/, BCIS: H= 18 18 08/DECM/, 34 1/4N, 25 1/2E, Mediterranean Sea. South of Crete. USCGS: H= 18 18 09.8, 34.3N, 25.2E, h= 33 km. Crete. MB= 4.3 SD 1.2 /CGS/.
- 8 eZ P 21 38 54, eZ 21 42 33, USCGS: H= 21 24 48.3, 28.8N, 142.5E, h= 33 km. Bonin Islands region. MB= 5.3 SD 1.2 /CGS/.
- 9 eZ /Pn/ 07 16 28, eZ 07 17 40, traces.
- 9 eZ P 08 40 52, USCGS: H= 08 28 23.0, 40.4N, 143.7E, h= 33 km. Off coast of Honshu, Japan. MB= 4.8 SD 1.2 /CGS/.
- 9 eZ Pn 15 04 13, eZ Sn 15 06 33, Z 15 07 /00/, D= 1400 km. BCIS: H= 15 00 42 /DECM/, 34.2N, 25.0E, Mediterranean Sea. South of Crete. USCGS: H= 15 00 43.9, 34.3N, 25.3E, h=22

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- /cont./ km. Crete, MB= 4.6 SD 1.5 /CGS/.
- 9 eZ 22 57 11, eZ 22 58 07, traces.
- 9 eZ PKP 23 36 01.5, USCGS: H= 23 17 21, 18.2S, 178.2W, h= 659 km. Fiji Islands region. MB= 4.1 SD 0.7 /CGS/.
- 10 eZ+P 20 52 52, eZ PP 20 56 52, D= 8900 km. USCGS: H= 20 40 31.2, 40.2N, 143.2E, h= 35 km. Off east coast of Honshu, Japan. MB= 5.3 SD 1.0 /CGS/.
- 10 eZ P 22 33 32, USCGS: H= 22 21 10.5, 40.3N, 143.2E, h= 33 km. Off east coast of Honshu, Japan. MB= 4.7 SD 1.1 /CGS/.
- 12 eZ P 00 57 02, USCGS: H= 00 44 36.5, 39.5N, 143.2E, h= 28 km. Off east coast of Honshu, Japan. M= 61/4 /PAS/, 6/GOL/, MB= 6.0 MS= 5.8 SD 1.1 /CGS/.
- 12 eZ P 04 08 52, USCGS: H= 03 56 27.5, 39.5N, 143.2E, h= 26 km. Off east coast of Honshu, Japan. MB= 5.5 MS= 5.5 SD 0.9 /CGS/.
- 13 eZ PKP 06 57 23, USCGS: H= 06 38 26.2, 6.4S, 149.7E, h= 36 km. New Britain region, MB= 5.1 SD 1.2 /CGS/.
- 13 eZ PKP 23 36 36, USCGS: H= 23 17 09.0, 18.3S, 175.0W, h= 230 km. Tonga Islands. MB= 4.7 SD 0.8 /CGS/.
- 14 eZ Pg 06 30 13, iZ Sg 06 30 25.0, D= 100 km.
- 14 eZ 08 00 12, eZ 08 00 24, traces.
- 14 eZ PKP 08 16 51, eZ 08 17 10, USCGS: H= 07 57 01.1, 19.5S, 173.6W, h= 86 km. Tonga Islands. MB= 5.1 SD 1.0 /CGS/.
- 14 eZ P 18 23 05, USCGS: H= 18 12 41, 30.3N, 94.8E, h= 22 km. Tibet. MB= 4.9 SD 0.9 /CGS/.
- 15 eZ 09 14 26, eZ 09 14 50, traces.
- 15 eZ 19 26 25, eZ /Sn/ 19 26 32, weak.
- 17 eZ PP 05 43 22, USCGS: H= 05 24 15.6, 8.8S, 125.0E, h= 25 km. Timor. MB= 5.7, MS= 5.7 SD 1.4 /CGS/.
- 17 Z P 06 36 /OO/, USCGS: H= 06 23 11.1, 10.4N, 83.4W, h= 19 km. Costa Rica. MB= 5.1 SD 1.0 /CGS/.
- From July 17, at 15 41 to July 18, at 12 33 station not operated.
- 19 eZ+P 05 08 14, USCGS: H= 04 56 27.2, 8.7N, 93.6E, h= 33 km. Nicobar Islands region. MB= 5.3 MS= 5.5 SD 1.1 /CGS/.
- 19 eZ P 06 19 19, USCGS: H= 06 07 22, 8.9N, 93.8E, h= 33 km.

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- /cont./ Nicobar Islands region. MB= 4.8 SD 0.7 /CGS/.
- 19 eZ PKP 09 40 30, USCGS: H= 09 21 04.8, 13.0S, 166.5E, h= 29 km. New Hebrides Islands. M= 5 3/4 /PAL/, 5 1/2 /GOL/, MB= 5.1 MS= 5.3 SD 1.0 /CGS/.
- 19 eZ /Pn/ 19 55 27, eZ Sn 19 55 41, /D= 110 km./
- 19 eZ /P/ 20 50 09, eZ 20 51 35,
- 20 eZ 21 52 05, iZ Sg 21 52 13.5,
- 21 eZ P 01 51 11, USCGS: H= 01 41 19.5, 55.2N, 113.E, h= 33 km. East of Lake Baikal. MB= 5.1 SD 0.7 /CGS/.
- 21 eZ PKP 06 52 36, USCGS: H= 06 32 39.3, 174.0W, 20. S, h= 52 km. MB= 4.9 SD 1.0 /CGS/.
- 21 eZ PKP 17 48 10, USCGS: H= 17 28 17.6, 58.1S, 148.3E, h= 33 km. West of Macquarie Island. MB= 4.9 MS= 5.9 SD 1.6 /CGS/.
- 22 eZ+ PKHKP 18 18 08, eZ! PKP2 18 18 20.5, USCGS: H= 17 58 30.3, 20.1S, 169.0E, h= 34 km. New Hebrides Islands. M= 5.6-5.9 /BRK/, 5 1/2 /PAL/, MB= 5.4 MS= 5.5 SD 1.0 /CGS/.
- 23 eZ P 18 41 33, USCGS: H= 18 28 01.2, 18.7N, 107.0W, h= 33 km. Off coast of Jalisco, Mexico. M= 6.0 /PAS/, 5.5-5.7 /BRK/, 5 3/4 /PAL/, 5 3/4 /GOL/, MB= 5.4 MS= 5.9 SD 1.1 /CGS/.
- 23 Z P 23 15 /OO/, eZ PP 23 18 07, D= 9100 km. USCGS: H= 23 02 35.5, 40.3N, 143.3E, h= 14 km. Off east coast of Honshu, Japan. M= 5 3/4 /GOL/, MB= 5.2 MS= 5.6 SD 1.1 /CGS/.
- 24 eZ 16 26 03, iZ Sn 16 26 09.8,
- 24 eZ PKP 20 40 34, USCGS: H= 20 20 55.3, 15.4S, 173.2W, h= 84 km. Tonga Islands. MB= 5.3 SD 1.0 /CGS/.
- 24 eZ Pn 20 58 38, eZ /Sn/ 21 00 19, D= 1050 km. BCIS: H= 20 56 17 /DECM/, 38.3N, 21.9E, North of Peloponissos. ML= 4.0 /Athens/.
- 25 Z! PKIKP 07 43 /OO/, eZ PKP2 07 43 47, eZ PP 07 47 26, ZSKS 07 51 /OO/, D= 18000 km. USCGS: H= 07 23 07.8, 30.8S, 178.4 W, h= 33 km. Kermadec Islands region. Felt on Radul. M= 7-7 1/4 /PAS/, 6.5- 6.9 /BRK/, 6 3/4 -7 /PAL/, 6 3/4 - 7 /GOL/, MB= 6.4 SD 1.0 /CGS/.
- 25 eZ P 11 02 37, USCGS: H= 10 50 31.5, 45.7N, 146.7E, h= 16 km. Kurile Islands. MB= 5.9 MS= 5.5 SD 1.0 /CGS/.
- 25 iZ Pn 22 06 05.0, eZ Sn 22 08 33, D= 850 km. BCIS: H= 22 05 28 /DECM/, 40.9N, 20.2E, Albania, ML= 4.4 /Pruhonice/, ML= 4.4 /Athens/.

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- 26 eZ P 17 18 48, USCGS: H= 17 07 24.9, 22.4S, 12.6W, h= 33km. South Atlantic Ridge. MB= 5.3 SD 1.3 /CGS/.
- 27 eZ Pn 02 49 18, iZ! 02 49 23.7, eZNE Sn 02 52 06, D= 1650 km. BCIS: H= 02 45 50 /DECM/, 35.4N, 27.9E, depth normal. Mediterranean Sea. South of Rhodes. Felt in southwestern Anatolia. MLH= 6.1 /Strasbourg/, 5.7 /Pruhonice/, 4.8 /Athens/, USCGS: H= 02 45 49.2, 35.4N, 27.8E, h= 21km. Dodecanese Islands. Felt in southwestern Anatolia. M= 5 1/4 /PAL/, 5 1/4 - 5 1/2 /GOL/, MB= 5.0 MS= 5.7 SD 1.4 /CGS/.
- 27 eZ PKIKP 11 11 16, eZ PKHKP 11 11 19, eZ PKP2 11 11 32, D= 16900 km. USCGS: H= 10 51 40.1, 19.2S, 175.7E, h= 88 km. South of Fiji Islands. MB= 5.4 SD 0.8 /CGS/.
- 27 eZ 21 46 03, eZ 21 48 14, traces.
- 28 eZ PKP 11 18 27, USCGS: H= 10 58 25.7, 22.5S, 174.7W, h= 33 km. Tonga Islands region. MB= 5.0 MS= 5.2 SD 1.0 /CGS/.
- 28 eZ P 21 24 26, eZ PP 21 27 22, D= 8400 km. USCGS: H= 21 12 38.1, 55.4N, 166.6E, h= 27 km. Komandorsky Islands region. M= 5.5- 5.7 /BRK/, 5 3/4 /GOL/, 5 1/4 /PAL/, MB= 5.4 MS= 5.8 SD 1.1 /CGS/.
- 29 eZ PKP 13 49 31, traces. USCGS: H= 13 30 31.9, 3.2S, 150.6 E, h= 28 km. New Ireland region. MB= 5.4 MS= 5.7 SD 1.0 /CGS/.
- 29 eZ PKP 15 39 49, USCGS: H= 15 19 57.6, 21.5S, 174.4W, h= 33 km. Tonga Islands. MB= 5.0 MS= 5.3 SD 1.1 /CGS/.
- 30 eZ P 00 06 54, eZ PKP 00 10 42, eZ PP 0011 22, D= 11100 km. USCGS: H= 23 52 15.0, 0.2S, 133.4E, h= 12 km. West New Guinea region. M= 6 1/2 /PAS/, 6 1/2 /PAL/, MB= 6.1 MS= 6.0 SD 1.1 /CGS/.
- 30 eZ PKIKP 03 09 21, eZ PKHKP 03 09 29, eZ PKP2 03 09 43, eZ pPKP 03 11 53, USCGS: H= 02 50 41.4, 20.9S, 179.2W, h= 620 km. Fiji Islands region. M= 5.6 - 5.8 /BRK/, MB= 4.9 SD 0.9 /CGS/.
- 30 Z PKP 04 30 /OO/, USCGS: H= 04 10 12.1, 22.4S, 175.0W, h= 33 km. Tonga Islands region. M= 5.5-5.7 /BRK/, 6 /PAL/, MB= 5.3 MS= 5.7 SD 1.0 /CGS/.
- 30 eZ 11 59 56, traces.
- 30 eZ P 17 46 44, USCGS: H= 17 34 29.0, 44.1N, 148.8W, h= 35 km. Kurile Islands. MB= 5.2 SD 1.0 /CGS/.
- 30 eZ P 20 52 18, eZ PP 20 56 19, USCGS: H= 20 38 42.0, 6.9S, 80.5W, h= 37 km. Near coast of northern Peru. Felt in northern Peru. M= 6.0- 6.2 /BKS/, 5 1/2- 5 3/4 /PAL/, 5 3/4 /GOL/, MB= 5.8 MS= 6.3 SD 1.1 /CGS/.

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- 31 eZ Pn 09 24 11, iZ Pg 09 24 56.5, iZ Sn 09 25 58, D= 1050 km. BCIS: H= 09 21 55 /DECM/, 37.7N, 20.9E, Ionian Sea. ML= 4.4 /Athens/. USCGS: H= 09 21 59.6, 37.8N, 21.4E, h= 80 km. Southern Greece. MB= 4.3 SD 1.4 /CGS/.
- 31 eZ Pn 14 28 27, eZ /Sn/ 14 30 08, /D= 1000 km/. Athens: H= 14 26 27, 39.8N, 21.2E, ML= 3.8.
- 31 eZ Pn 19 32 54, eZ Sn 19 34 39, D= 1030 km. BCIS: H= 19 29 28 /DECM/, 35.5N, 28.0N, h= normal. Mediterranean Sea. South of Rhodes. ML= 5.1 /Athens/. MLH= 4.6 /Praha/, 4.5 /Pruhonice/, USCGS: H= 19 29 26.7, 35.5N, 28.0E, h= 27 km. Eastern Mediterranean Sea. MB= 4.8 SD 1.2 /CGS/.

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- 1 eZ+ PKIKP 00 33 59, eZ PKP2 00 34 35, eZ PP 00 38 23, eZ PPP 00 41 49, D= 17600 km. USCGS: H= 00 14 16.0, 26.6S, 177.5W, h= 123 km. South of Fiji Islands. M= 5.1 /BRK/, 5 1/2 /PAL/, MB= 5.6 MS= 5.6 SD 0.9 /CGS/.
- 1 eZ P 14 29 39, BCIS: H= 14 23 04, /DECM/, 38.2N, 29.8W, Azores. USCGS: H= 14 23 03.9, 39.2N, 29.9W, h= 33 km. Azores. MB= 4.9 SD 1.2 /CGS/.
- 1 eZ P 18 39 36, USCGS: H= 18 27 23.1, 40.0N, 139.2E, h= 42 km. Near west coast of Honshu, Japan. MB= 4.9 SD 0.9 /CGS/.
- 1 eZ Pg 19 45 08, iZ Sg 19 45 22, D= 120 km.
- 1 eZNE P 20 32 18, eZ! 20 32 35, eZNE S 20 42 /OO/, D= 10000 km. USCGS: H= 20 19 21.9, 16.5N, 122.2E, h= 36 km. Luzon. Philippine Islands at least 207 killed, many injured, extensive property damage in the Manila area. Felt extensively on Luzon. M= 7 /PAS/, 6.5- 7.0 /BRK/, 7 /GOL/, MB= 5.9 MS= 7.3 SD 1.2 /CGS/.
- 1 eZ P P or PKP 23 18 /OO/, eZ 23 19 59.
- 2 eZ Pn 02 33 36, eZ Pb 02 33 44, eZ Pg 02 33 56, eZ Sn 02 34 34, D= 570 km.
- 2 eZ P 04 05 /OO/, eZ 04 05 31, traces. USCGS: H= 03 59 23.8, 36.6N, 49.1E, h= 10 km. Western Iran. MB= 4.4 SD 1.1 /CGS/.
- 2 iZ -P 13 37 59.8, eZ PP 13 39 38, eZ S 13 43 /44/, USCGS: H= 13 30 23.3, 27.5N, 60.9E, h= 62 km. Southern Iran. MB= 5.7 SD 1.1 /CGS/.
- 2 eZ+ P 14 19 53.5, eZNE PP 14 22 39, eZNE S 14 30 30, D= 10000 km. USCGS: H= 14 06 43.9, 16.6N, 97.7W, h= 40 km. Oaxaca, Mexico at least 4 killed, many injured, extensive

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- /cont./ property damage in the Oaxaca area. Moderate damage at Mexico City. M= 7- 7 1/4 /PAS/, 6.8 /BRK/, 6 3/4 -7 /PAL/, 7- 7 1/4 /GOL/, MB= 6.3 MS= 7.1 SD 1.2 /CGS/.
- 4 Z P 11 54 /OO/, USCGS: H= 11 41 24.8, 6.6N, 126.8E, h= 107 km. Mindanao, Philippine Islands. M= 6.25 /PAS/, 6.3 -6.5 /BRK/, MB= 5.7 SD 1.1 /CGS/.
- 5 eZ! P 16 29 29, USCGS: H= 16 17 04.8, 33.3N, 132.2E, h= 41 km. Shikoku, Japan. 14 injured and minor damage on Kyushu and Shikoku, also felt at western Honshu. M= 7- 7 1/4 /PAS/, 6.4- 6.6 /BRK/, MB= 6.3 MS= 6.1, SD 0.9 /CGS/.
- 6 eZ P 08 42 55, USCGS: H= 08 34 42.3, 13.9N, 51.5E, h= 33 km. Eastern Gulf of Aden. MB= 4.9 SD 1.0 /CGS/.
- 7 eZ+P 08 12 23, USCGS: H= 08 00 13.4, 43.1N, 144.6E, h= 54 km. Hokkaido. Japan region. MB= 5.6 SD 1.0 /CGS/.
- 7 iZ Pg 08 52 12.6, iZ Sg 08 52 16.0, D= 30 km.
- 7 eiz+Pg 09 04 22.4, iZ Sg 09 04 39.4, D= 140 km. BCIS: H=09 04 00, 45 1/2N, 16.0E, Felt in Zagreb.
- 7 iZ Sg 13 45 28.0,
- 8 eZ P 05 07 42, USCGS: H= 04 55 10.0, 36.4N, 141.4E, h= 41 km. Near east coast of Honshu, Japan. MB= 5.4 SD 0.9 /CGS/.
- 8 iZ /Pg/ 05 44 45.4, eZ Sg 05 45 04, /D= 150 km./
- 9 eZ PKIKP 03 27 15, eZ PP 03 29 36, eZ PKS 03 30 46, D=14400 km. USCGS: H= 03 08 04.2, 22.4S, 113.0W, h= 33 km. Easter Island region. M= 6 1/4- 6 1/2 /PAS/, 5.8- 6.0 /BRK/, MB= 5.4 MS= 5.8 SD 1.2 /CGS/.
- 9 eZ Pn 03 58 18, eZ 03 59 06.
- 10 eZ P+ 02 21 06, iZ 02 21 14.9, iZ PP 02 25 29, Z SKS 02 32 /OO/, Z S 02 33 /OO/, D= 11700 km. USCGS: H= 02 07 04.3, 1.4N, 126.2E, h= 33 km. Molucca Passage. M= 7 1/4- 7 1/2 /PAS/, 7.6- 8 /BRK/, 7.5 /PAL/, MB= 6.3 MS= 7.6 SD 1.3 /CGS/.
- 10 eZ P 04 19 /OO/, eZ 04 23 32, eZ PP 04 24 09, D= 11800 km. USCGS: H= 04 05 50.6, 1.3N, 126.5E, h= 33 km. Molucca Passage. Damage at Malago, Celebes. MB= 5.7 SD 1.4 /CGS/.
- 10 eZ P 04 33 07, BCIS: H= 04 28 01 /DECM/, 36.8N, 43.1E, h= 50 km. cca. Iraq - Turkey frontier region. MB= 5.0 /CGS/. USCGS: H= 04 27 59.8, 36.9N, 43.0E, h= 29 km. Iraq. MB=5.0 SD 0.8 /CGS/.
- 10 eZ P 06 05 49, eZ PP 06 10 13, eZ SKS 06 16 24, eZ S 06 17 41, D= 11700 km. USCGS: H= 05 51 47.9, 1.5N, 126.2E, h= 33 km. Molucca Passage. MB= 6.2 MS= 6.6 SD 1.4 /CGS/.

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- 10 eZ P 16 54 25, Z 16 58 /OO/, D= 10000 km. USCGS: H= 16 41 25.4, 15.5N, 121.6E, h= 33 km. Luzon, Philippine Islands. MB= 5.4 MS 5.2 SD 1.1 /CGS/.
- 10 eZ PKP 19 38 11, iZ! 19 38 15.6, USCGS: H= 19 18 43.0, 21.5 S, 170.4E, h= 136 km. Loyalty Islands region. MB= 5.1 SD 1.0 /CGS/.
- 11 eZ P 12 48 29, USCGS: H= 12 37 28.1, 52.1N, 179.9W, h=159 km. Andeanof Islands, Aleutian Islands. Felt on Adak. M= 5.1 /BRK/, MB= 5.5 SD 1.2 /CGS/.
- 11 eZ P 20 14 45, Z PP 20 19 /OO/, USCGS: H= 20 00 43.4, 1.6 N, 126.1E, h= 33 km. Molucca Passage. D= 11700 km. M= 6 1/4 /PAS/, 5.9 /BRK/, MB= 5.9 MS= 6.0 SD 1.4 /CGS/.
- 12 iZNE Pg 13 54 46.1, iZNE Sg, 13 54 48.8, Felt 4^o at Ljubljana, I_o= 5^o.
- 12 eZ PKP18 27 11, USCGS: H= 18 07 10.6, 31.4S, 177.9W, h=33 km. Kermadec Islands. M= 5.2 - 5.4 /BRK/, MB= 4.9 MS= 5.4 DS 1.2 /CGS/.
- 12 iZ Pg 21 44 30.5, iZNE Sg 21 44 32.9, D= 18 km. Felt: Lju-2^o- 3^o, Zlato polje /Trojane/ 4^o.
- 13 eZ Pn 01 53 37, eZ Sn 01 54 19, eZ /Sg/ 01 54 27.4, D=410 km. BCIS: H= 01 52 42, /DECM/, 46.6N, 9.6E, MLH= 3.0/Moxa/, Switzerland.
- 13 eZ 13 03 11, traces.
- 13 Z Pn 13 32 /OO/, eZ 13 32 36.8, eZ Sn 13 32 45, eZ 13 32 52, D= 410km. BCIS: H= 13 31 06 /DECM/, 46.7N, 9.7E, Switzerland. MLH= 3.2 /Moxa/.
- 13 eZ 17 01 46, BCIS: H= 16 57 15 /DECM/, 50.4N, 4.2E, Belgium, Felt on the region of Luviere and important damage. MLoc.= 4 /Bensberg/.
- 13 iZ Pn 18 03 48.7, eZ 18 04 21, eZ Sn 18 04 34, D= 410 km. BCIS: H= 18 02 55 /DECM/, 46.7N, 9.8E, Switzerland, MLH= 3.5 /Moxa/.
- 13 eZ PKHKP 19 54 36, eZ PKIKP 19 54 40, eZ /PP/ 19 58 07, US CGS: H= 19 35 20.9, 15.5S, 167.5E, h= 125 km. New Hebrides Islands. MB= 5.2 SD 1.2 /CGS/.
- 14 eZ P 08 09 43, eZ PP 08 13 22, D= 10000 km. USCGS: H= 07 56 35.5, 15.1N, 122.5E, h= 8 km. Philippine Islands. MB= 5.4 SD 1.0 /CGS/.
- 14 eZ P 08 52 03, USCGS: H= 08 38 48.4, 18.5N, 102.8 W, h=72 km. Michoacan, Mexico. Felt at Mexico City, M= 5.5- 5.7 /BRK/. 5-5 1/4 /PAL/, 6-6 1/4/GOL/, MB=5.4 SD 1.0 /CGS/.

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- 14 eZ Pn 18 25 33, eZ /Sn/ 18 27 34, D= 1190 km. Athens: H= 18 23 12, 39.7N, 21.8E, M= 4.0, Felt in Evrytania /5° at Karople- sion/ and in Karditsa /4° at Metropolis/.
- 14 eZ P 22 28 23, eZ PP 22 32 23, eZ S 22 39 19, D= 11100 km. USCGS: H= 22 14 19.4, 0.2N, 119.8E, h= 23 km. Northern Ce- lebes. Tsunami swept coastal area of Donggal district. 200 killed at Tambu. Tuguan Island submerged, approximately 500 occupying this Island were lost. M= 7 3/4 /PAS/, 6.8-7.2 /BRK/, 71/4-7 1/2 /PAL/, MB= 6.0 MS= 7.4 SD 1.4 /CGS/.
- 15 Z Pn 02 33 /OO/, eZ /Sn/ 02 35 10, /D= 1300 km/ BCIS: H= 02 29 46 /DECM/, 35.6N, 27.0E, h= normal. Sea of Crete. MLH= 4.8 /Pruhonice/, ML= 4.5 /Athens/. USCGS: H= 02 29 45.4, 35.3N, 26.8E, h= 67 km. Crete. MB= 4.8 SD 1.4 /CGS/.
- 15 eZ PKIKP 07 10 12.4, eZ PKP2 07 10 38.5, eZ 07 11 01, D= 16400 km. USCGS: H= 06 50 38.7, 23.8S, 177.4W, h= 188 km. South of Fiji Islands. M= 6-6 1/4 /PAS/, MB= 5.5 SD 1.0 /CGS/.
- 15 Z PKP 18 00 /OO/, USCGS: H= 17 41 28.1, 12.7S, 166.2E, h= 4 km, Santa Cruz Islands. MB= 5.4 MS= 5.5 SD 1.0 /CGS/.
- 16 eZ Pn 10 30 34, iZ Pg 10 30 44, iZ Sg 10 31 26.0, D= 350 km.
- 16 eZ P 10 51 46, USCGS: H= 10 39 16.8, 38.5N, 143.3E, h= 22 km. Off east coast of Honshu, Japan. M= 5.5-5.9 /BRK/, 5 1/4 - 5 1/2 /GOL/, MB= 5.6 MS= 5.3 SD 1.0 /CGS/.
- 16 eZ 10 55 12, traces.
- 16 eZ PKIKP 11 52 55, eZ PKHKP 11 53 03, eZ PKP2 11 53 17, D= 16980 km. USCGS: H= 11 34 16.4, 21.1S, 179.3W, h= 640 km. Fiji Islands. MB= 5.1 SD 1.1 /CGS/.
- 16 eZ 11 55 24, traces.
- 16 iZ Pg 21 33 53.7, iZNE Sg 21 34 /OO/, D= 45 km, BCIS: H= 21 33 46 /DECM/, 46.5N, 14.3E, Yugoslavia. Felt 4-5° at Radov- ljica, 4° at Bled, Gorje, 3-4° at Tržič, 3° at Kranj. I= 5°. USCGS: H= 21 33 46.7, 46.4N, 14.2E, h= 33 km. Yugosla- via. Felt at Radovljica, Gorje and Tržič, MB= 4.2 SD 1.0 /CGS/.
- 18 eZ P 07 24 42. USCGS: H= 07 12 19.3, 35.3N, 135.3E, h= 33 km. Southern Honshu, Japan. Felt in southwestern Japan. MB= 5.0 SD 1.2 /CGS/.
- 18 eiZ P 18 56 36, iZ! 18 56 48.6, eZ PP 18 59 26, D= 14650 km. USCGS: H= 18 38 30.6, 10.1S, 159.9E, h= 538 km. Solomon Is- lands. Felt in Honiara. MB= 6.2 SD 1.1 /CGS/.
- 19 iZ Pn 00 38 04.6, iZ Pg 00 38 27.6, eZ Sn 00 39 07, eZ Sg 00 39 33, D= 600 km. BCIS: H= 00 36 41 /DECM/, 46.3N, 6.7E, Hight Savoia /France/. Felt at Annecy and Cluses. /Press/.

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- /cont./ 4° at Evian /Hight Savoia/. MLH= 4.2 /Pruhonice/, USCGS: H= 00 36 43.8, 46.4N, 6.9E, h= 33 km. Switzerland. Felt at Annecy, Cluses and Evian, France. MB= 4.3 SD 1.3 /CGS/.
- 19 eZ 15 41 51, eZ 15 42 26, traces. BCIS: H= 15 35 47 /DECM/, 33.8N, 25.8E, Mediterranean Sea. South of Crete. USCGS: H= 15 35 52.4, 33.8N, 25.8E, h= 33 km. Eastern Mediterranean Sea. MB= 4.9 SD 1.5 /CGS/.
- 19 Z PKP 16 02 /OO/, eZ pPKP 16 03 42, USCGS: H= 15 42 29.7, 15.9S, 174.0W, h= 151 km. Tonga Islands. MB= 5.3 SD 1.2 /CGS/.
- 20 eZ 03 29 12, traces.
- 20 Z PKP 03 35 /OO/, USCGS: H= 03 15 46.1, 31.1S, 179.9E, h= 361 km. Kermadec Islands. MB= 4.8 SD 1.1 /CGS/.
- 20 eZ 05 03 28, eZ Sn 05 04 11, traces.
- 20 eZ PKP 11 35 37, USCGS: H= 11 16 59.3, 5.6N, 146.9E, h= 33 km. Caroline Islands region. MB= 5.6 SD 1.0 /CGS/.
- 20 eZ P or PKP 14 19 00,
- 20 eZ PKP 15 45 29, USCGS: H= 15 25 31.5, 31.2S, 178.4W, h= 33 km. Kermadec Islands. MB= 5.1 SD 1.4 /CGS/.
- 21 eZ PKIKP 18 16 46, eZ 18 16 51, eZ PP 18 21 19, eZ PKS 18 21 21, D= 17870, km. USCGS: H= 17 56 48.0, 30.9N, 179.1W, h= 33 km. Kermadec Islands, M= 6 1/2 /PAS/, 6.4-6.6 /BRK/, 6 3/4 /PAL/, 6 1/2-6 3/4 /GOL/, MB= 5.3 MS= 6.4 SD 1.2 /CGS/.
- 21 eZ /Pn/ 18 44 28, eZ Sn 18 46 23, D= 1130 km. Athens: 18 41 53, 37.1N, 20.6E. ML= 3.9, Greece.
- 22 eZ P or PKP 12 15 55.
- 22 eZ P 13 44 28, USCGS: H= 13 32 24.3, 52.8N, 171.0E, h= 34 km. Near Islands, Aleutian Islands. MB= 4.8 SD 0.6 /CGS/.
- 22 eZ P 14 12 09, eZ PP 14 15 11, D= 8900 km. USCGS: H= 14 00 06.8, 53.0N, 171.0E, h= 33 km. Near Islands, Aleutian Is- lands. M= 6.0- 6.4 /BRK/, 5 3/4 /PAL/, 5 3/4- 6 /GOL/, MB= 5.4 MS= 6.0 SD 1.1 /CGS/.
- 22 eZ Pn 14 31 /24/, eZ 14 33 54., Athens: 14 29 09, 40.1N, 25.1E, ML= 4.0, Greece.
- 22 eZ PKP 16 39 00 iZ pPKP 16 39 40.0, USCGS: H= 16 19 39.5, 19.1S, 169.1E, h= 166 km. New Hebrides Islands. Felt at Port Vila. M= 6.0- 6.4 /BRK/, MB= 5.1 SD 1.0 /CGS/.
- 23 eZ PKP 17 07 45, USCGS: H= 16 47 57.0, 17.9S, 173.9W, h=

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- /cont./ 72 km. Tonga Islands. MB= 4.0 SD 1.1 /CGS/.
- 23 eZ P 22 49 30, eZ pP 22 51 28, USCGS: H= 22 36 51.3, 22.0S, 63.5W, h= 537 km. Salta Province, Argentina. M= 5.3 - 5.5 /BRK/, 5 3/4 /PAL/, MB= 5.8 SD 1.0 /CGS/.
- 24 eZ PKP 18 49 47, USCGS: H= 18 29 58.9, 22.2S, 138.8W, h= 33 km. Tuamotu Archipelago region. Mururoa atol. Explosion /France/.
- 25 eZ+ P 09 19 54, USCGS: H= 09 07 31.9, 40.1N, 143.2E, h= 33 km. Off east coast of Honshu, Japan. M= 4.8-5.2 /BRK/, MB= MS= 5.5 SD 1.0 /CGS/.
- 25 eZ+ P 09 26 11, USCGS: H= 09 13 48.5, 40.1N, 143.3E, h= 31 km. Off east coast of Honshu, Japan. MB= 5.2 MS= 5.4 SD 0.9 /CGS/.
- 25 eZ- PKP 11 35 34, Z pPKP 11 36 00, USCGS: H= 11 15 46.3, 20.0S, 175.3W, h= 96 km. Tonga Islands. MB= 5.5 SD 0.9 /CGS/.
- 26 eZ PKP 09 45 39, USCGS: H= 09 25 58.7, 16.3S, 178.0E, h= 25 km. Fiji Islands region. M= 4.8- 5.4 /BRK/, MB= 5.7 MS= 5.1 SD 0.9 /CGS/.
- 26 Z Pg 21 25 /00/, iZ Sg 21 25 15.4, D= 120 km.
- 28 eZ PKIKP 12 10 13, eZ PKP2 12 10 21, eZ PP 12 13 56, D= 16650 km. USCGS: H= 11 50 30.4, 20.0S, 176.3E, h= 36 km. South of Fiji Islands. M= 6-6 1/4 /PAS/, 5.7-6.0 /BRK/, 5.7 /PAL/, 5 1/4-5 1/2 /GOL/, MB= 5.7 MS= 5.6 SD 1.1 /CGS/.
- 28 eZ 15 24 50, eZ 15 25 22, traces.
- 28 eZ+ P 20 55 20, eZ PP 20 58 56, eZ S 21 06 18, D= 10000 km. USCGS: H= 20 42 16.7, 15.6N, 122.0E, h= 15 km. Philippine Islands region, Felt at Manila. M= 6-6 1/4 /PAS/, 5.6-5.8 /BRK/, 6 /PAL/, 6 /GOL/, MB= 5.7 MS= 6.1 /CGS/.
- 29 eZ P 01 49 23, USCGS: H= 01 36 18.8, 15.4N, 121.9E, h= 17 km. Luzon. Philippine Islands. M= 5.3 SD 1.1 /CGS/.
- 29 eZ P 08 18 32, USCGS: H= 08 05 30.5, 15.5N, 122.1E, h= 22 km. Philippine Islands. MB= 5.1 SD 0.8 /CGS/.
- 29 eZ P 17 31 25.5,
- 29 eZ P 21 21 05.5, USCGS: H= 21 08 07.9, 15.9N, 121.7E, h= 39 km. Luzon, Philippine Islands. MB= 5.2 SD 1.0 /CGS/.
- 29 eZ P or PKP 22 57 42, eZ 22 58 05.
- 30 eZ Pn 10 03 05, eZ /Sg/ 10 03 48, D= 400 km.
- 30 eZ P 21 13 13,

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- 30 eZ /P/ 21 17 38, USCGS: H= 21 11 20.4, 34.9N, 59.5E, h= 33 km. Iran. Probably foreshock of Iranian quake of August 31, hypocenter poorly determined.
- 30 eZ P 22 10 49.3, USCGS: H= 22 02 19.8, 14.6N, 56.3E, h= 33 km. Arabian Sea. MB= 5.2 SD 1.2 /CGS/.
- 31 eZ PKP 09 08 34, USCGS: H= 08 48 44.7, 22.9S, 172.9E, h= 30 km. Loyalty Islands region. MB= 4.9 MS= 5.1 SD 1.2 /CGS/.
- 31 eZ P 10 54 35, eZNE 10 54 40, eNE S 11 00 17, D= 4060 km. BCIS: H= 10 47 39 /DECM/, 34.ON, 58.7E, Khorassan, Iran. Several thousands of killed and injured. Several dozens towns and villages destroyed, of which Kakh, Gonabad, Kashmar, Torbat e Jam, Gayen, /Press/, M= 7.5 /Uppsala/, 7.4 /Collm/ 7-7 1/4 /Roma/, 7.2 /Pasadena/, 7.1 /Strasbourg/, MLV= 7.1 /Moxa/, MLH= 7.1 /Moxa/, 6.8 /Praha/, MPPV= 6.8 /Collm/, MPV= 6.5 /Collm/, 6.3 /Bensberg/, USCGS: H= 10 47 37.4, 34.ON, 59.0E, h= 13 km. Iran, more than 11000 killed. 6000 injured. Kakhak destroyed. Hight destruction in surrounding area. Felt throughout Khorassan Province. M= 7-7 1/4 /PAS/, 7.7 /BRK/, 7 1/2 /GOL/, MB= 6.0 MS= 7.3 SD 1.5 /CGS/.
- 31 eZ P 11 16 17,
- 31 eZ P 11 41 31, USCGS: H= 11 34 32.9, 33.9N, 59.2E, h= 24 km. Iran, MB= 5.5 SD 0.9 /CGS/.
- 31 eZ P 14 13 18, BCIS: H= 14 06 15 /DECM/, 34.ON, 59.6E, Khorassan, Iran. USCGS: H= 14 06 16.1, 34.1N, 59.4E, h= 18 km. Iran. MB= 5.0 SD 1.1 /CGS/.
- 31 eZ P 18 16 38, USCGS: H= 18 06 35.7, 56.3N, 115.6E, h= 25 km. East of Lake Baikal. MB= 4.6 SD 0.8 /CGS/.
- 31 eZ PKIKP 20 13 41, eZ PKHKP 20 13 46, eZ PKP2 20 13 54, eZ pPKP 20 15 16, D= 16650 km. USCGS: H= 19 54 35.0, 18.3S, 177.7W, h= 379 km. Fiji Islands region. 5.7-6.1 /BRK/, MB= 5.0 SD 0.9 /CGS/.
- 31 eZ P or PKP 21 47 55,

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- ✓ 1 eZ Pn 01 21 23, iZ Pg 01 21 36.3, iZ Sn 01 22 07.4, iZ Sb 01 22 17.5, iZ Sg 01 22 25.6, D= 410 km. BCIS: H= 01 20 31 /DECM/, 43.3N, 17.5E, Yugoslavia. Mostar region. Felt 5° at Sarajevo. USCGS: H= 01 20 23.9, 43.ON, 07.4E, h= 15 km. Yugoslavia. Felt at Sarajevo. MB= 5.2 MS= 5.6 SD 1.0 /CGS/.
- 1 eZ P 04 58 44, USCGS: H= 04 48 52.2, 1.0S, 24.5W, h= 33 km. Central Mid-Atlantic ridge. MB= 5.2 MS= 5.6 SD 1.0 /CGS/.
- 1 eZ P 05 04 07,

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- 1 Z P 05 45 /00/, BCIS: H= 05 39 47 /DECM/, 39.2N, 46.2E, h= 45 + 12 km. Iran-USSR frontier region. Strongly felt at Russian Armenia, damage. USCGS: H= 05 39 46.0, 39.1N, 46.0E, h= 38 km. N.W. Iran-USSR border region. M= 5.1 SD 1.0 /CGS/.
- 1 eZ Pn 07 17 19, eZ Sn 07 18 07, iZ Sg 07 18 15.9, D= 440km.
- 1 eZ P 07 34 22, iZNE 07 34 27.5, eZNE 07 39 /46/, /D=4030 km /, BCIS: H= 07 27 28 /DECM/, 34.1N, 58.3E. Khorassan, Iran. Aftershock of the seisms of August 31, 1968 at 10 47. MLH= 6.4, MLV= 6.3 /Moxa/, M= 5.8 /Collm/, MPV= 5.6 /Moxa/. USCGS: H= 07 27 30.2, 34.0N, 58.2E, h= 15 km. More than 2000 killed and extensive property damage at Ferdows. M= 6.2/PAS/, 7.0 /BRK/, 6 1/4-6 1/2 /GOL/, MB= 5.9 MS= 6.3 SD 1.0 /CGS/.
- 1 eZ 07 40 44,
- 1 eZ 08 29 50, eZ 08 30 10, traces.
- 1 eZ 16 46 10, eZ /Sn/ 16 46 45.
- 1 eZ P 19 23 19, USCGS: H= 19 16 37.3, 34.2N, 58.3E, h=23km. Iran. MB= 5.0 SD 1.0 /CGS/.
- 1 eZ P 21 23 33, USCGS: H= 21 16 44.7, 34.4N, 58.0E, h=44km. Iran. MB= 4.8 SD 0.9 /CGS/.
- 2 eZ /P/ 12 42 28, eZ 12 42 44.
- 2 eZ P 23 07 05, USCGS: H= 23 03 42.1, 34.9N, 27.0E, h= 51 km. Eastern Mediterranean Sea. Athens: 23 03 44, 35.3N, 27.1E, ML= 4.4.
- 3 eZ P 05 35 43, USCGS: H= 05 23 30.0, 42.9N, 145.2E, h= 43 km. Hokkaido, Japan region. MB= 5.2 SD 0.9 /CGS/.
- 3 07 13 59, USCGS: H= 07 01 36.5, 37.9N, 141.7E, h= 79 km. Near east coast of Honshu, Japan. M= 5.3 /BRK/, MB= 5.4 SD 0.9 /CGS/.
- 3 eZ P 08 23 07, BCIS: H= 08 19 52 /DECM/, 41.9N, 32.3E, Black Sea. Near the coast of Turkey. Destructive seism at Bartin /41°38'N, 32°20'E/ and Amasra, 25 dead, 200 injured. Strongly felt at Bolu, Izmit, Adapazari, Kastomu. Numerous aftershocks. MLV= 6.2, MLH=6.4, MPV= 6.0 /Moxa/, USCGS: H= 08 19 52.2, 41.8N, 32.3E, h= 5 km. Turkey. 25 killed, 200 injured and considerable damage in Bartin area. M= 6 1/2 /PAS/, 6.7 /BRK/, 6 3/4 /PAL/, 6 1/2 /GOL/, MB= 5.7 MS= 6.6 SD 1.4 /CGS/.
- 3 eZ P 10 00 48, USCGS: H= 09 53 47.0, 33.8N, 59.2E, h= 16 km. Iran, MB= 5.0 SD 1.1 /CGS/.
- 3 eZ P 10 59 31, eZ /S/ 11 02 16, / D= 1630 km. /, BCIS: H= 10 56 14 /DECM/, 41.7N, 32.5E, Black Sea, near the coast

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- /cont./ of Turkey. USCGS: H= 10 56 14 /DECM/, 41.8N, 32.4E, h= 10 km. Turkey. MB= 4.5 SD 1.3 /CGS/.
- 3 eZ P 12 25 15,
- 3 eZ P 14 12 24.5, BCIS: H= 14 09 07 /DECM/, 41.8N, 32.6E, Black Sea, near the coast of Turkey. USCGS: H= 14 09 10.0, 41.7N, 32.4E, h= 14 km. Turkey. MB= 4.6 SD 1.3 /CGS/.
- 3 iZ- P 15 47 48.4, USCGS: H= 15 37 00.2, 20.6N, 62.2W, h=33 km. North Atlantic Ocean. Felt at San Juan, Puerto Rico. M= 5-5 1/4 /PAL/, MB= 5.5 MS= 5.9 SD 1.1 /CGS/.
- 3 eZ- P 18 56 00, USCGS: H= 18 48 15.7, 36.2N, 69.2E, h= 75 km. Hindu Kush region. MB= 5.3 SD 1.0 /CGS/.
- 3 Z P 19 08 /00/, USCGS: H= 18 58 08.3, 1.0N, 28.2W, h= 33 km. Central Mid-Atlantic ridge, MB= 4.7 SD 0.9 /CGS/.
- 3 eZ P 22 34 21, USCGS: H= 22 22 06.9, 29.3N, 139.3E, h=410 km. South of Honshu, Japan. MB= 4.9 SD 0.4 /CGS/.
- 3 eZ PKHKP 23 49 49, eZ PKIKP 23 49 58.5, USCGS: H= 23 30 13.6, 17.7S, 167.7E, h= 11 km. New Hebrides Islands region. Felt at Port Vila. MB= 4.9 SD 1.4 /CGS/.
- 4 eZ P 10 46 19, USCGS: H= 10 34 28.4, 53.2N, 159.7E, h=30 km. Near coast of Kamchatka. MB= 4.7 MS= 4.2 SD 0.8 /CGS/.
- 4 eZ P 11 26 35, eZ 11 27 /00/, BCIS: H= 11 19 28 /DECM/, 33.6N, 59.7E, Khorassan, Iran. USCGS: H= 11 19 35.6, 33.9 N, 59.1E, h= 25 km. Iran. MB= 5.1 SD 0.9 /CGS/.
- 4 eZ 14 55 14, eZ Sn 14 56 46.
- 4 eZ P 23 31 /47/, obscured by microseisms. BCIS: H= 23 24 50 /DECM/, 34.1N, 58.6E, Khorassan, Iran. MLH= 4.9/Pruhonice/. USCGS: H= 23 24 47.2, 34.0N, 58.2E, h= 15 km. Iran, damage at Ferdouse. MB= 5.4 MS= 5.2 SD 0.8 /CGS/.
- 5 eZ P 04 13 49, USCGS: H= 04 05 57.4, 49.8N, 78.1E, h= 0km. Eastern Kazakh SSR, MB= 5.5 SD 1.0 /CGS/. BCIS: H= 04 06 00, 78.0E, 50.0N, Kazakstan, region of Semipalatinsk. Probably explosion, M= 5.2 /Uppsala/.
- 5 eZ /Pn/ 18 45 47, Z 18 46 /00/, traces. USCGS: H= 18 42 17.6, 34.0N, 26.7E, h= 94 km. Crete. Athens: 18 42 33, 36.3 N, 26.7E, ML= 4.1.
- 5 eZ 20 02 /13/, eZ Sn 20 02 51, traces.
- 6 eZ PKHKP 03 41 30, eZ PKIKP 03 41 39, USCGS: H= 03 21 56.1, 17.8S, 167.8E, h= 24 km. New Hebrides Islands. Felt at Port Vila. MB= 5.1 SD 0.9 /CGS/.

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- 6 eZ PKHKP 07 55 39, eZ PKIKP 07 55 47, USCGS: H= 07 36 06.4, 17.8S, 167.8E, h= 28 km. New Hebrides Islands. Felt at Port Vila, M= 4.8 /BRK/, MB= 5.3 MS= 5.1 SD 1.0 /CGS/.
- From September 6, at 15 44 to September 6, at 18 57 station not operating.
- 6 eZ P 19 35 19, USCGS: H= 19 22 47.8, 31.ON, 131.9E, h= 39 km. Kyushu, Japan. M= 5.4 /PAL/, MB= 5.7 MS= 5.7 SD 1.1 /CGS/.
- 6 eZ Pn 20 32 41, eZ /Sn/ 20 33 38, eZ 20 33 51, BCIS: H= 20 31 20 /DECM/, 44.1N, 8.3E, Off coast of Liguria. East of Albenga. Italy. ML= 3.6 /Genova/.
- 7 eZ Pn 16 51 10, eZ Pg 16 51 30, iZ Sn 16 52 04.1, D= 520km. BCIS: H= 16 19 58 /DECM/, 44.1N, 8.3E, Off coast of Liguria. East of Albenga, Italy. ML= 4.1 /Genova/.
- 7 eZ 20 48 50, eZ Sn 20 49 21,
- 7 eZ PKP 23 35 13.5, iZ 23 35 45, USCGS: H= 23 15 42.7, 17.9 S, 168.3W, h=N, New Hebrides Islands. MB= 4.6 SD 1.0 /CGS/.
- 8 eZ PKHKP 00 36 13, eZ PKIKP 00 36 18, USCGS: H= 00 16 38.0, 17.6S, 167.8E, h= 20 km. New Hebrides Islands. Felt at Port Vila. MB= 5.0 SD 1.0 /CGS/.
- 8 eZ P 02 13 48, USCGS: H= 02 02 23.6, 45.4N, 142.7E, h= 326 km. Hokkaido, Japan region, MB= 4.7 SD 1.2 /CGS/.
- 8 eZ PKHKP 13 49 39, eZ PKIKP 13 49 46, USCGS: H= 13 30 05.9, 17.5S, 167.8E, h= 28 km. New Hebrides Islands. Felt at Port Vila. MB= 4.7 SD 1.1 /CGS/.
- 8 iZ PKP 15 31 11.5, USCGS: H= 15 12 23.8, 3.7S, 143.0E, h=29 km. Near north coast of New Guinea. Felt in Wewak area. M= 6.1 /PAS/, 6.7 /PAL/, 6.0 /GOL/, MB= 6.0 MS= 6.1 SD 1.0 /CGS/.
- 8 eZ PKP 19 19 48, USCGS: H= 18 59 59.3, 21.8S, 139.2W, h= 0 km. Tuamotu Archipelago region. MB= 4.7 SD 0.8 /CGS/.
- 8 eZ P 20 22 03, USCGS: H= 20 09 51.2, 46.ON, 151.4E, h=31km. Kurile Islands. MB= 5.0 SD 0.8 /CGS/.
- 8 eZ 22 07 10, eZ /Sg/ 22 07 50, traces.
- 9 eZ P 00 48 34, USCGS: H= 00 35 18.4, 8.7S, 74.5W, h= 144km. Peru-Brazil border region. MB= 5.3 SD 0.9 /CGS/.
- 9 eZ P 00 50 56, USCGS: H= 00 37 43.2, 8.7S, 74.5W, h= 120km. Peru-Brazil border region. M= 6.3 /PAS/, MB= 6.0 SD 0.8 /CGS/.

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- 9 eZ P 02 31 11.5, USCGS: H= 02 20 57.9, 66.1N, 142.1E, h= 33 km. Eastern Sibiria, MB= 5.1 SD 1.0 /CGS/.
- 9 eZ P 05 06 30, USCGS: H= 04 54 46.0, 59.ON, 149.2W, h= 17km. Kenai Peninsula, Alaska. MB= 5.2 SD 0.9 /CGS/.
- X 10 eZ Pn 12 56 15, eZ /Sn/ 12 57 15, D= 560 km. Felt at Kragujevac 4, Svetozarevo 3-4 /Beograd/.
- 10 iZ Sg 17 04 27.2, local, very weak.
- 10 eZ 17 25 51, eZ 17 26 28, traces.
- 10 Z P 20 39 /OO/, BCIS: H= 20 32 03 /DECM/, 34 1/2N, 58 1/2E, Khorassan, Iran. USCGS: H= 20 31 58.6, 34.ON, 59.4E, h= 18 km. Iran, felt by Field Party at Gonabad. MB= 4.7 SD 1.0 /CGS/-
- 10 eZ PKP 23 10 57, USCGS: H= 22 51 14.1, 15.1S, 177.4W, h= 33 km. Fiji Islands region, MB= 5.0 SD 0.9 /CGS/.
- 11 eZ PKP 18 45 25, eZ /PP/ 18 46 26, USCGS: H= 18 26 36.8, 43.0S, 75.2W, h= 31 km. Off coast of Southern Chile, MB= 5.7 MS= 5.5 SD 1.3 /CGS/.
- 11 eZ P 19 24 14, eZ PP 19 25 37, D= 4000 km. BCIS: H= 19 17 05 /DECM/, 33.5N, 59.6E, Khorassan, Iran. MLH= 6.3 /Pruhonic/, 5.8 /Collm/, USCGS: H= 19 17 12.9, 33.9N, 59.4E, h= 33 km. Iran. MB= 5.2 MS= 5.4 SD 1.7 /CGS/.
- 11 eZ P 21 59 52, USCGS: H= 21 47 21.9, 24.ON, 122.3E, h= 42km. Taiwan region. MB= 5.0 SD 1.0 /CGS/.
- 12 eZ 00 53 19, eZ /Sn/ 00 54 24, traces.
- 12 eZ P 13 48 54, USCGS: H= 13 36 27.5, 39.7N, 143.6E, h= 12km. Off east coast of Honshu, Japan. MB= 5.2 SD 1.0 /CGS/.
- 12 eZ P 15 45 12, USCGS: H= 15 36 48.8, 39.8N, 77.8E, h= 8 km. Southern Sinkiang Prov., China. MB= 4.9 SD 1.2 /CGS/.
- 12 iZ- PKIKP 23 02 47.2, iZ PKHKP 23 02 55.3, iZ PKP2 23 03 10.2 eZ pPKP 23 05 22, D= 17000 km. USCGS: H= 22 44 06.5, 21.6S, 179.4W, h= 635 km. Fiji Islands region. MB= 5.9 SD 1.0 /CGS/.
- 13 eZ P 07 43 47, USCGS: H= 07 30 43.6, 15.1N, 93.9W, h= 34km. Near coast of Chiapas, Mexico. MB= 5.1 MS= 5.4 SD 1.1 /CGS/.
- 13 eZ PKP 12 33 11, USCGS: H= 12 13 38.5, 18.6S, 168.6E, h=47 km. New Hebrides Islands. Felt at Port Vila.
- 13 eZ PKP 13 09 13, USCGS: H= 12 49 54.8, 11.1S, 164.6E, h=59 km. Santa Cruz Islands region. MB= 5.4 SD 0.9 /CGS/.
- 14 eZ Pg 01 26 /27/, eZ 01 26 39, iZSg 01 26 47.8, / D= 170km/.

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- 14 Z P 01 45 /00/, USCGS: H= 01 38 44.8, 57.9N, 32.6W, h= 51 km. North Atlantic Ocean. MB= 5.3 MS= 4.7 SD 1.1 /CGS/.
- 14 eZ P 13 55 22, eZ PP 13 56 47, D= 4000 km. BCIS: H= 13 48 33 /DECM/, 28.6N, 53.0E, h=normal. Farsistan, Iran. MPH= 6.2, MLH= 6.0 /Collm/, 5.8 /Pruhonice/, USCGS: H= 13 48 31.2, 28.4N, 53.1E, h= 33 km. Southern Iran, many injured and many houses damaged in Jarom and Mobarakabad, MB= 5.8 MS= 5.6 SD 1.5 /CGS/.
- 14 eZ P 19 27 14, BCIS: H= 19 20 15 /DECM/, 28.1N, 53.2E, Farsistan, Iran. USCGS: H= 19 20 22.7, 28.4N, 53.2E, h= 44km, Southern Iran, MB= 5.1 SD 0.8 /CGS/.
- 15 eZ P 04 59 16, eZ S 05 01 41, D= 1450 km. BCIS: H= 04 56 05 /DECM/, 35.0N, 25.2E, h= 60 km. Crete. USCGS: H= 04 55 59.5, 34.7N, 25.1E, h= 33 km. Crete. MB= 4.9 SD 1.5 /CGS/.
- 15 eZ+P 11 02 32, eZ 11 04 05, eZ PP 11 05 41, D= 9100 km. US CGS: H= 10 50 11.8, 40.9N, 143.2E, h= 15 km. Off coast of Honshu, Japan. MB= 5.4 MS= 5.6 SD 1.0 /CGS/.
- 16 eZ Pn 02 58 06, eZ /Sn/ 02 59 38, eZ 03 00 04,
- 16 eZ PKP 14 14 30, Obscured by microseisms. USCGS: H= 13 55 36.1, 6.1S, 148.7E, h= 59 km. New Britain region. Felt on eastern New Guinea, and western New Britain. M= 6 1/4- 6 1/2 /PAS/, 6.3-6.7 /BRK/, 6-6 1/4 /PAL/, MB= 5.8 SD 1.3 /CGS/.
- 17 iZ+ Pn 12 17 01.1, iZ Sn 12 17 23.8, iZ Sg 12 17 29.5, D= 200 km. BCIS: H= 12 16 32 /DECM/, 44.9N, 12.9E, Adriatic Sea, off the delta of river Po. USCGS: H= 12 16 35.3, 45.2 N, 12.7E, h= 43 km. Northern Italy.
- 17 eZ 18 08 16, eZ PKIKP 18 09 32, USCGS: H= 17 49 47.6, 15.0 S, 175.7W, h= 17 km. Tonga Islands. M= 5.4- 5.6 /BRK/, 5 1/2 -5 3/4 /GOL/, MB= 5.2 MS= 5.6 SD 1.4 /CGS/.
- 17 eZ 19 31 32, traces.
- 17 eZ P 21 17 48, BCIS: H= 21 13 52 /DECM/, 35.3N, 31.2E, h= normal. Mediterranean Sea, northwest of Cyprus. MB= 4.6 SD 1.3 /CGS/.
- 18 eZ P or PKP 01 50 07,
- 18 eZ 03 02 46, eZ 03 03 06, eZ 03 03 15, traces.
- 18 eZ Pn 04 05 13, eZ /Sn/ 04 07 50, /D= 1570 km. / BCIS: H= 04 01 59 /DECM/, 34.7N, 25.1E, h= 50 km + 15 km. Mediterranean Sea. South of Crete. MLH= 4.5 /Collm/, USCGS: H= 04 01 59.4, 34.8N, 25.1E, h= 35 km. Crete. MB= 4.6 SD 1.8 /CGS/.

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- 18 eZ Pn 04 48 /35/, Z 04 49 /00/, traces.
- 18 eZ P 06 21 33, BCIS: H= 06 17 40 /DECM/, 39.8N, 40.3E, Eastern Anatolia. North Anatolian rift, east of Erzinean. USCGS: H= 06 17 04.9, 39.8N, 40.2E, h= 37 km. Turkey, MB= 4.6 SD 1.8 /CGS/.
- 18 eZ P 07 45 10, USCGS: H= 07 37 21.8, 37.2N, 71.9E, h= 123 km. Afghanistan-USSR border region. MB= 5.0 SD 0.9 /CGS/.
- 18 eZ PKHKP 12 03 18, eZ PKIKP 12 03 25, D= 16000 km. USCGS: H= 11 43 45.6, 18.2S, 167.1E, h= 33 km. New Hebrides Islands. M= 6.4-6.6 /BRK/, MB= 5.7 SD 1.1 /CGS/.
- 18 eZ /Pn/ 19 31 06, eZ 19 31 17, eZ 19 31 42, weak.
- 19 eZ P 11 21 29, eZ 11 21 52, USCGS: H= 11 13 07.4, 30.7N, 41.9W, h= 33 km. North Atlantic ridge. M= 5 1/2 -5 3/4 /GOL/, MB= 4.9 MS= 5.4 SD 1.0 /CGS/.
- 19 eZ P 22 19 31, eZ PP 22 20 55, eZ S 22 25 47, D= 4000 km. USCGS: H= 22 12 38.2, 28.4N, 53.2E, h= 34 km. Southern Iran, MB= 5.1 SD 0.8 /CGS/.
- 19 eZ P 22 30 00, weak.
- 19 eZ P 23 42 49, USCGS: H= 23 35 56.0, 28.3N, 53.1E, h= 33km. Southern Iran, MB= 4.8 SD 1.4 /CGS/.
- 20 eiz+ P 06 11 28, eZ PP 06 14 15, eZ S 06 20 46, D= 8110km. USCGS: H= 06 00 03.5, 10.7N, 62.7W, h= 107 km. Near coast of Venezuela. 2 killed, 37 injured. Damage in state Sucre Venezuela and on Trinidad also felt in northern Guyana, possible tsunami north coast of Trinidad. M= 7 /PAS/, 6.1 - 6.3 /BRK/, 6 1/2 /GOL/, MB= 6.2 SD 1.2 /CGS/.
- 20 eZ P or PKP 06 39 02, eZ 06 39 38,
- 20 eZ P 14 06 07, USCGS: H= 13 53 35.9, 40.6N, 143.5E, h= 25 km. Off coast of Honshu, Japan. Felt in northern Japan. MB= 4.9 SD 1.1 /CGS/.
- 20 eZ PKP 18 49 02, USCGS: H= 18 29 09.3, 28.1S, 176.7W, h= 70 km. Kermadec Islands, M= 5.0-5.5 /BRK/, 5 1/2-5 3/4 /GOL/ MB= 5.3 SD 1.2 /CGS/.
- 20 eZ Pn 20 29 49, eZ Sn 20 30 10, d= 190 km.
- 20 Z P 22 38 00, USCGS: H= 22 25 37.1, 36.8N, 138.1E, h= 59km. Honshu, Japan. MB= 5.0 SD 1.1 /CGS/.
- 20 eZ P 23 14 28, USCGS: H= 23 02 43.5, 13.7S, 66.1E, h= 47km. Mid-Indian Rise. MB= 5.0 SD 1.7 /CGS/.
- 21 iZ P 11 07 52.4, BCIS: H= 11 05 53 /DECM/, 45. 1/4N, 26 3/4

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- /cont./ E, h= 175+ 30 km. Rumania, Vrancea region. USCGS: H= 11 05 52.9, 45.7N, 26.6E, h= 128 km. Rumania MB= 4.3 SD 0.9 /CGS/.
- 21 eZ+P 13 18 09.5, eZ PP 13 21 06, eZ S 13 28 12, D= 8920 km. USCGS: H= 13 05 58.2, 42.2N, 142.6E, h= 33 km. Hokkaido, Japan region. M= 6.2 /PAS/, 5.7-6.2/BRK/, 6 1/2-6 3/4 /GOL/ MB= 5.9 MS= 6.4 SD 1.1 /CGS/.
- 22 eZ PKIKP 08 19 14, iZ PKHKP 08 19 15.8, eZ PKP2 08 19 27, D= 16800 km. USCGS: H= 08 00 32.8, 18.1S, 178.6N, h=630 km. Fiji Islands region. MB= 4.8 SD 0.9 /CGS/.
- 23 eZ P 05 16 13, USCGS: H= 05 03 50.0, 40.3N, 143.5E, h= 30 km. Off coast of Honshu, Japan. MB= 4,8 MS= 5.2 SD 0.9/CGS/.
- 23 eZ 07 27 31, eZ 07 28 09, traces.
- 23 eZ P 21 32 11.5, eZ 21 32 18, BCIS: H= 21 27 21, /DECM/, 36.2N, 40.9E, Syria, destruction at Kamisli /37°0N, 41.3°E/ Felt at northern Syria /Ksara/, and in Turkey at Nusaybin, Mardin., Viransehir /Çinè/. USCGS: H= 21 27 19.9, 36.4N, 40.7E, h= 31 km. Jordan-Syria region. Destruction at at Kameshli, Syria. Felt in northwest Syria and southeast Anatolia. MB= 4.4 SD 0.7 /CGS/.
- 24 eZ+ P 03 47 12, eZ /PP/ 03 50 25, eZ PPP 03 52 11, D=9100 km. USCGS: H= 03 34 48.5, 40.2N, 143.7E, h= 22 km. Off east coast of Honshu, Japan. MB= 5.1 MS= 5.1 SD 1.0 /CGS/.
- 24 eZ P 04 24 30, eZ S 04 28 23, D= 2360 km. BCIS: H= 04 19 57 /DECM/, 39.1N, 40.1E, Eastern Anatolia. Destruction at Kigi /39°19'N, 40°21'E/, 2 dead, 40 injured. Largely felt in provinces of Tunceli, Diyarbakir, Mardin, Bingöl and Elazig. USCGS: H= 04 19 54.5, 39.2N, 40.2E, h= 14 km. Turkey. 2 killed, 40 injured, at Elazig and Bingöl, damage in many areas of western Kurdistan. MB= 5.1 SD 1.2 /CGS/.
- 24 eZ+ P 04 58 27, USCGS: H= 04 46 03.6, 40.3N, 143.6E, h=26 km. Off east coast of Honshu, Japan. MB= 5.0 SD 0.8 /CGS/.
- 25 eZ+ PKP 00 34 25, USCGS: H= 00 15 39.5, 18.0S, 178.5W, h= 582 km. Fiji Islands region. MB= 4.7 SD 1.0 /CGS/.
- 25 eZ Pn 06 39 /49/, eZ 06 39 37,
- 25 eZ PKP 07 23 26, eZ 07 23 33, eZ 07 23 43, USCGS: H= 07 02 51.8, 46.4S, 166.8E, h= N, Off W. coast of S. Island, N.Z. Felt extensively in south New Zealand. MB= 5.5 MS= 0.3 SD 1.7 /CGS/.
- 25 Z P 08 20 /00/, USCGS: H= 08 16 30.7, 35.4N, 28.0E, h= 33 km. Eastern Mediterranean Sea.
- 25 eZ P 10 51 26, eZ PP 10 54 49, eZ S 11 01 59, D= 9900 km.

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- /cont./ USCGS: H= 10 38 38.4, 15.6N, 92.6W, h= 138 km. Mexico-Guatemala border region, at least 15 dead, 500 injured and heavy property damage in southern Chiapas. Possible 7 foot tsunami at Salina Cruz. M= 6/PAS/, 5.8-6.2/BRK/, 6 1/4 -6 1/2 /PAL/, 5 1/2-5 3/4 /GOL/, MB= 5.7 SD 1.1 /CGS/.
- 25 eZ 11 16 48, Z /Sn/ 11 17 /00/, weak.
- 25 eZ PKIKP 14 53 47, eZ PKHKP 14 53 51, eZ pPKP 14 54 49, US CGS: H= 14 34 22.6, 19.3S, 175.9W, h= 230 km. Tonga Islands. MB= 5.0 SD 0.7 /CGS/.
- 25 eZ P 20 56 47, BCIS: H= 20 52 14 /DECM/, 39.2N, 40.2E, Eastern Anatolia. MLH= 4.5 /Pruhonicè/. USCGS: H= 20 52 15.9, 39.2N, 40.2E, h= 47 km. Turkey. MB= 5.1 SD 1.1 /CGS/.
- 26 eZ+P 00 54 14, eZ PP 00 56 56, eZ S 01 00 37, D= 4780 km. USCGS: H= 00 46 13.8, 33.7N, 69.9E, h= 45 km. Afghanistan. MB= 5.2 SD 1.0 /CGS/.
- 26 eZ PKIKP 02 58 41, eZ PKHKP 02 58 48, eZ PKP2 02 58 59, eZ pPKP 03 01 05, D= 16900 km. USCGS: H= 02 39 56.5, 19.3S, 177.6W, h= 560 km. Fiji Islands region. MB= 5.2 SD 0.8 /CGS/.
- 26 eZ P 06 45 39, eZ 06 45 44, BCIS: H= 06 42 01 /DECM/, 38.7N, 32.9E, Central Anatolia. USCGS: H= 06 42 01.2, 38.6N, 33.0E, h= 34 km. Turkey. Aftershock of 24th Sep. Earthquake, further property damage at Kigi. MB= 4.8 SD 1.1 /CGS/.
- 26 eZ P 08 20 18, USCGS: H= 08 06 57.4, 5.7S, 105.5E, h= 33 km. Sunda Strait. MB= 5.1 SD 1.0 /CGS/.
- 26 eZ PKIKP 09 00 02, iZ PKHKP 09 00 07.9, eZ PKP2 09 00 14, eZ pPKP 09 01 07, D= 16900 km. USCGS: H= 08 41 22.0, 17.7S, 178.5W, h= 578 km. Fiji Islands region. MB= 5.1 SD 1.0 /CGS/.
- 26 eZ PKIKP 14 57 08, eZ PKHKP 14 57 14, eZ PKP2 14 57 35, eZ pPKP 14 58 16, eZ PP 15 00 19, D= 17000 km. USCGS: H= 14 37 46.2, 20.9S, 177.0W, h= 251 km. Fiji Islands region. M= 6-6 1/4 /PAS/, 6.0-6.4 /BRK/, MB= 5.8 SD 1.0 /CGS/.
- 26 eZ+ PKIKP 18 22 47, eZ PKP2 18 23 36, eZ PP 18 27 21, eZ SKS 18 29 31, eZ PPP 18 31 /00/, D= 17980 km. USCGS: H= 18 02 50.1, 30.5S, 178.2W, h= 33 km. Kermadec Islands region. Felt on Radul. MB= 5.8 MS= 6.8 SD 1.0 /CGS/.
- 27 eZ P 04 13 21, eZ PKP 04 17 17, eZ PP 04 18 04, eZ PPP 04 20 36, eZ SKS 04 23 45, D= 12500 km. USCGS: H= 03 58 55.1 6.8S, 129.1E, h= 127 km. Banda Sea. M= 5 3/4-6 /PAL/, MB= 6.1 SD 1.1 /CGS/.
- 27 eZ-P 10 45 45, iZ pP 10 46 11.0, eZ PP 10 47 25, D= 4800km. USCGS: H= 10 37 55.9, 37.8N, 72.3E, h= 119 km. Tadzhik SSR. MB= 5.2 SD 1.0 /CGS/.

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- 27 eZ Pn 13 16 23, eZ 13 17 39, weak.
- 27 eZ+ PKIKP 17 01 07, eZ PKP2 17 01 54, eZ PP 17 05 37, eZ PPP17 09 25, D= 17980 km. USCGS: H= 16 41 07.8, 30.7N, 178.2 W, h= 33 km. Kermadec Islands region. M= 6 /PAS/, 5.7-5.8 /BRK/, MB= 5.4 SD 1.5 /CGS/.
- 27 eZ PKP 19 25 34, eZ PP 19 27 56, D= 13200 km. USCGS: H= 19 06 42.2, 3.7S, 143.3E, h= 7 km. Near north coast of New Guinea. Felt in Sepik District. M= 6.2 /PAS/, 6-6 3/4 /BRK/, 5 3/4- 6 /PAL/, MB= 5.9 MS= 6.5 SD 1.2 /CGS/.
- 27 eZ PKP 23 07 35, USCGS: H= 22 47 36.3, 30.9S, 177.7W, h= N, Kermadec Islands region. MB= 4.6 SD 1.1 /CGS/.
- 28 eZ Pn 00 55 54, eZ Sn 00 55 56, D= 1200 km. BCIS: H= 00 53 26, /DECM/, 40.4N, 26.7E, western Turkey, near Dardanelles. Felt in northwestern Turkey /Istambul K./, ML= 4.7 /Athens/. USCGS: H= 00 53 25.9, 40.5N, 26.4E, h= 28 km. Turkey. Felt in northwest Turkey, MB= 4.4 SD 1.6 /CGS/.
- 28 eZ P 09 33 50, USCGS: H= 09 25 36.6, 27.6N, 66.8E, h= N, West Pakistan, MB= 5.2 SD 1.1 /CGS/.
- 28 eZ P 10 07 49, USCGS: H= 09 54 45.9, 15.9N, 122.6E, h= 27 km. Philippine Islands region. Felt at Manila. MB= 5.2 SD 0.5 /CGS/.
- 28 eZ P 14 07 15, eZ PcP 14 07 21, eZ pP 14 07 33, eZ PP 14 11 33, D= 11100 km. USCGS: H= 13 53 35.3, 13.2S, 76.4W, h= 70 km. Near coast of Peru. Slight damage at Lima. M= 6 /PAS/, 6.5-6.6/BRK/, 5 1/2-5 3/4 /PAL/, MB= 6.0 SD 1.1 /CGS/.
- 29 eZ+P 01 42 18, USCGS: H= 01 32 52.0, 7.6N, 59.5E, h= N, Carlsberg ridge. MB= 4.7 SD 1.4 /CGS/.
- 29 eiZ+ P 03 50 50, eZ PP 03 52 26, D= 4700 km. BCIS: H= 03 43 00, 50.0N, 78.0E, Kazakhstan, region of Semipalatinsk. Probably artificial. m= 6.2 /Uppsala/, mb = 5.8 /Ifrane/, USCGS: H= 03 42 57.5, 49.8N, 78.2E, h= 0 km. Eastern Kazakh SSR, MB= 5.8 SD 1.0 /CGS/.
- 29 eZ PKP 13 02 52, eZ PP 13 06 19, D= 15800 km. USCGS: H= 12 43 39.9, 15.5S, 167.3E, h= 190 km. New Hebrides Islands. MB= 4.6 SD 1.1 /CGS/.

Ljubljana, March 27, 1970

 Interpretation: M. Hržič
Redaction: V. Ribarič

University of Ljubljana
Astronomical and Geophysical Observatory

29 SEP 1970

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

X — XII 1968

Ljubljana 1969

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.Box 01-20, Yugoslavia

1968

P R E L I M I N A R Y S E I S M O L O G I C A L
B U L L E T I N

/ October - December 1968 /

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.Box 01-20, Yugoslavia

PRELIMINARY SEISMOLOGICAL BULLETIN
from October 1, to December 31, 1968

Station: Ljubljana / LJU / - Coordinates: $46^{\circ} 02.6' N$ Lat.
 $14^{\circ} 32.0' E$ Long.
Geocentric direction cosines: $a = + 6743$, $b = +1748$, $c = + 7175$
 $d = - 8$, $h = - 4$
Height above sea level: 396 m.
Lithologic fundation: sandstone /carbon/.

Instruments:

Wiechert, horizontal astatic seismograph, $M = 200$ km, mechanical registration, 16-18 mm/min.

Constants / 31.1.1966 /:				
Component	To	v:l	r/T_0^2	V
N-S	5.0	2.20	0.0043	69
E-W	4.9	2.37	0.0058	67

Hiller-Stuttgart, vertical component Z with galvanometrical recording. $T_0 = 1.5$ sec, $T_g = 1.5$ sec, $D_1 = D_2 = 1$, $V_{max} = 10150x$,

Note: Periods of seismic waves are given in seconds, the amplitudes in microns. Sign. + means compression or movement of ground towards north or east, sign. - means dilatation or movement of ground south or west. All times are given in GMT. Time signals are received one or two times daily and are registered on a chronograph. Wherever possible time readings up to one tenth of a second are given. Macro seismic data refer to Mercalli-Cancani-Sieberg scale / MCS /. Macro seismic rays are given in kilometers. Abbreviation DECM means: Determination was made by electronic computer.

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- 1 $iZ + P_n 16 32 31.7$, $eZ S_n 16 33 30$, $D = 560$ km, BCIS: $H = 16 31 03 / DECM /$, $40.2N$, $15.4E$, $h = 287+9$ km, Campania /Italy/, near coast of Tyrrhenian Sea. USCGS: $H = 16 31 03.1$, $40.2N$,

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- /cont./ 15.4E, h= 291 km, Southern Italy, Mb= 4.2 SD 0.9 /CGS/.
- 2 eZ Pn 02 11 22.5, eZ Sn 02 11/41/, /D= 150 km./ BCIS: H= 02 11 00, 47.1N, 14.4E, /Wien-K./, Steyer, Austria. Io= 4- 5°, epicenter near Neumarkt /Wien- K./
- 2 eZ P 09 21 11.2, USCGS: H= 09 09 50.8, 27.2N, 140.1E, h= 436 km. Bonin Islands region. Mb= 4.8 SD 0.8 /CGS/.
- 2 eZ- Pg 11 14 22, eZ Sg 11 14 25, D= 24 km. Local, weak.
- 2 eZ PKIKP 13 40 38, eZ PKHKP 13 40 43.4, USCGS: H= 13 21 56.5, 17.6S, 178.8W, h= 560 km. Fiji Islands region. Mb= 4.4 SD 1.0 /CGS/.
- 3 eZ PKP 08 23 14, USCGS: H= 08 04 55.6, 3.8 S, 128.5E, h=97 km. Ceram. Mb= 5.6 SD 0.9 /CGS/.
- 3 eZ P 12 38 /00/, USCGS: H= 12 25 14.2, 19.6N, 122.0E, h=40 km. Philippine Islands, Mb= 4.8 SD 1.2 /CGS/.
- 3 eZ Pn 18 20 15, eZ Sn 18 21 35, eZ 18 22 42, D= 790 km, Athens: H= 18 18 29, 40.2N, 19.5E, ML= 4.1,
- 4 Z 06 22 /00/, eZ PKP 06 23 08, eZ PP 06 23 13, D= 12000km, USCGS: H= 06 04 31.9, 56.2S, 27.0W, h= 63 km. South of Sandwich Islands region, Mb= 5.9 SD 1.1 /CGS/.
- 4 eZ PP 07 46 /25/, USCGS: H= 07 27 16.3, 7.6S, 126.3E, h= 32 km. Banda Sea, Mb= 5.8, SD 0.9 /CGS/.
- 4 eZ PKIKP 07 48 17, eZ PKP2 07 48 28, USCGS: H= 07 28 27.1, 17.4S, 172.7W, h= N, Tonga Islands region. Mb= 5.0 SD 0.7 /CGS/.
- 5 iZ-P 15 18 15.5, USCGS: H= 15 12 51.0, 41.7N, 49.5E, h= 56 km. Caspian Sea, Mb= 5.1 SD 0.9 /CGS/.
- 6 eZ Pn 00 43 21, eZ Sn 00 45 11, D= 1090 km. BCIS: H= 00 40 45 /DECM/, 36 3/4N, 22 1/4E, South of Peloponissos, ML= 3.7 /Athens/. USCGS: H= 00 40 44.0, 36.9N, 21.9E, h= 55 km. Southern Greece, Mb= 4.3 SD 0.9 /CGS/.
- 6 eZ PKP 03 11 24, USCGS: H= 02 51 46.1, 15.6S, 173.2W, h= 106 km, Tonga Islands, M= 5.1-5.5 /BRK/, Mb= 5.0 SD /CGS/.
- 6 eZ+P 07 53 57, USCGS: H= 07 42 25.2, 10.ON, 93.7E, h= 111 km, Andaman Islands region. Mb= 5.1 SD 0.9 /CGS/.
- 6 eZ PKP 05 34 54, USCGS: H= 05 15 11.5, 15.OS, 175.5W, h=N, Tonga Islands, M= 4.9-5.3, Mb= 5.3, Ms= 6.0 SD 1.2 /CGS/.
- 6 eZ PKP 09 06 45, USCGS: H= 08 47 02.0, 14.7S, 175.6W, h=35 km, Samoa Islands region, M= 5.8-6.2 /BRK/, Mb= 5.4 Ms=6.0

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- /cont./ SD 1.1 /CGS/.
- 6 eZ PKP 09 25 08, traces. USCGS: H= 09 05 19.9, 14.9S, 175.2 W, h= N, Samoa Islands region. Mb= 4.4 SD 0.8 /CGS/.
- 6 eZ PKP 09 34 42, USCGS: H= 09 15 01.1, 14.8S, 175.1W, h= N, Samoa Islands region, Mb= 5.0 SD 1.0 /CGS/.
- 6 eZ Pn 15 09 42, eZ 15 12 26, BCIS: H= 15 06 38 /DECM/, 36.9 26.7E, Dodecanese Islands, ML= 4.7 /Athens/, USCGS: H= 15 06 44.8, 36.9N, 26.5E, h= 40 k m. Dodecanese Islands. Mb= 4.7 SD 1.1 /CGS/.
- 6 eZ 22 00 02, traces.
- 6 eZ Pn 22 10 48, BCIS: H= 22 07 11 /DECM/, 38.7N, 32.5E, Central Anatolia, ML= 4.7 /Istanbul-K./, USCGS: H= 22 07 10.9, 38.8N, 32,6E, h= 39 km. Turkey, Mb= 4.8 SD 1.1 /CGS/.
- 6 eZ PKP 23 46 41 USCGS: H= 23 26 55.5, 14.9S, 175.2W, h= N, Samoa Islands region. Mb= 4.4 SD 1.1 /CGS/.
- 7 eZ PKP 00 18 38, traces. USCGS: H= 23 59 02.3, 14.9S, 175.2 W, h= 88 km. Samoa Islands region. Mb= 4.3 SD 1.2 /CGS/.
- 7 iZ Pg 17 29 05.2, iZ Sg 17 29 07.5, D= 20 km, local, weak.
- 7 eZ-P 19 32 38, eZ pP 19 34 34.6, eZ PP 19 36 35.2, D=10300 km. USCGS: H= 19 20 20.3, 26.3N, 140.6E, h= 516 km. Bonin Islands region, Felt strongly on Bonin Islands, M= 7.5 /PAS/ 6.3-6.7 /BRK/, Mb= 6.1 SD 1.0 /CGS/.
- 7 eZ+P 21 01 13.4, eZ PP 21 04 21, D= 9000 km. USCGS: H= 20 49 01.3, 42.ON, 142.4E, h= 32 km. Hokkaido, Japan region. Mb= 5.7, Ms= 6.1 SD 1.0 /CGS/.
- 8 Z P 08 02 /00/, USCGS: H= 07 43 23.1, 39.9S, 87.7E, h= N, Southeast Indian rise. M= 6 /PAS/, Mb= 6.0 Ms= 5.8 /CGS/.
- 9 eZ PKIKP 03 58 28, iZ PKP2 03 58 33.0, D= 15400 km, USCGS: H= 00 38 39.9, 14.7S, 175.5W, h= N, Samoa Islands region. M= 5.4-5.8 /BRK/, 6 /GOL/, Mb= 5.2 Ms= 5.6 SD 0.9 /CGS/.
- 9 eZ PKIKP 17 30 21, eZ PKP2 17 30 25, USCGS: H= 17 10 37.2 15.OS, 175.5W, h= N, Tonga Islands. Mb= 5.0 Ms= 5.3 SD 1.5 /CGS/.
- 10 eZ PKP 15 24 43, USCGS: H= 15 05 37.1, 6.OS, 148.6E, h=72 km. New Britain region, felt. Mb= 5.0, SD 1.3 /CGS/.
- 11 eZ Pg 12 58 28, iZ Sg 12 58 32, D= 30 km. Local, weak.
- 11 iZ Pg 19 11 45.2, iZ Sg 19 11 47.8, D= 20 km. Local, weak.
- 12 eZ-PKIKP 19 36 22, iZ PKHKP 19 36 30.0, iZ PKP2 19 36 48, eZ pPKP 19 38 50, D= 17000 km. USCGS: H= 19 17 39.9, 20.9S

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- /cont./ 178.8W, h= 607 km. Fiji Islands region. M= 5.9 /B RK/, Mb= 5.7 SD 1.0 /CGS/.
- 12 eZ+PKP 20 45 55, USCGS: H= 20 26 22.9, 17.2S, 175.0W, h= 17 km. Tonga Islands, Mb= 4.0 SD 1.1 /CGS/.
- 12 eZ+ P 23 27 57, USCGS: H= 23 20 19.3, 36.4N, 70.8E, h= 203 km. Hindu Kush region. Mb= 5.3 SD 1.1 /CGS/.
- 12 eZ P 23 32 59, USCGS: H= 23 21 32.3, 10.8N, 62.6W, h= 80 km. Near coast of Venezuela. Felt at Port of Spain, Trinidad. Mb= 4.9 SD 1.1 /CGS/.
- 13 eZ /Pn/ 17 56 49, eZ Sn 17 57 05, D= 140 km.
- 14 eZ PKP 03 17 42, eZ 03 17 46, eZ PP 03 19 33, USCGS: H= 02 58 47.8, 31.5S, 117.0E, h= 1 km. Western Australia. 28 injured and all buildings damage or destroyed at Meckering. Slight damage at Kalgoorlie, Perth, and York. Felt over a wide area of southwestern Australia. M= 7 1/4- 7 1/2 /PAS/ 6.5- 6.9 /BRK/, 7 1/4 /PAL/, 7- 7 1/4 /GOL/, Mb= 6.0 Ms= 6.8 SD 1.2 /CGS/.
- 14 eZ P 05 34 22, iZ! 05 34 25, USCGS: H= 05 22 44.3, 12.6N, 95.2E, h= N, Andaman Islands region. Mb= 5.5 SD 1.3 /CGS/.
- 14 eZ P 09 23 51, USCGS: H= 09 11 27.5, 38.2N, 142.1E, h= 69 km. Near east coast of Honshu, Japan. Mb= 5.0 SD 1.1 /CGS/.
- 14 eZ Pn 16 22 /45/, eZ /Sn/ 16 23 20.
- 14 eZ Pn 16 34 39, eZ Sn 16 35 16, D= 330 km. BCIS: H= 16 33 45 /DECM/, 47.4N, 11.5E, region of Innsbruck, Austria, Tyrol.
- 15 eZ+P 02 23 14.0, eZS 02 33 40, D= 9900 km. USCGS: H= 02 10 34.4, 0.5S, 100.6E, h= 98 km. Southern Sumatra. Mb= 5.6 SD 0.9 /CGS/.
- 15 eZ PKP1 17 59 44, eZ PKP2 18 00 17, USCGS: H= 17 30 16.4, 30.3S, 178.0W, h= 50 km. Kermadec Islands region. Mb= 4.2 SD 1.3 /CGS/.
- 15 eZ 19 20 09, eZ Sn 19 20 18, BCIS: H= 19 18 50 /DECM/, 47.3 N, 11.1E, /Wien-K./, Tyrol, Austria. Felt at Telfs /Tyrol/ /Wien-K./
- 16 eZ+P 07 58 21, USCGS: H= 07 45 46.8, 29.3N, 129.4E, h= 13 km Ryukyu Islands, Mb= 5.6 Ms= 5.4 SD 1.3 /CGS/.
- 17 eZ+Pn 23 58 12.7, eZ Sn 23 59 45.8, D= 900 km. BCIS: H= 23 56 02 /DECM/, 38.1N, 20.2E, Ionian Sea. ML= 4.2 /Athens/. USCGS: H= 23 56 05.5, 38.3N, 20.2E, h= 29 km. Greece. Mb= 4.5 SD 1.2 /CGS/.
- 18 eZ P 19 04 51, USCGS: H= 18 53 12.9, 12.3N, 95.1E, h= N,

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- /cont./ Andaman Islands region. Mb= 4.6 SD 1.2 /CGS/.
- 19 eZ P 02 41 30, USCGS: H= 02 33 30.9, 37.3N, 73.1E, h= 76 km. Tadzhik SSR, Mb= 4.9 SD 1.2 /CGS/.
- 19 eZ P 07 09 36, USCGS: H= 07 01 33.4, 37.3N, 73.2E, h= 51 km. Tadzhik SSR. Mb= 5.2 SD 1.1 /CGS/.
- 19 eZ P 10 00 08, eZ 10 00 12, USCGS: H= 09 52 03.4, 37.5N, 73.3E, h= N, Tadzhik SSR, Mb= 5.4 SD 1.4 /CGS/.
- 19 eZ Pn 15 37 52, eZ Sn 15 40 19, D= 1480 km. BCIS: H= 15 34 57, /DECM/, 35.3N, 23.6E, h= normal. Southwest of Crete. USCGS: H= 15 34 54.8, 35.3N, 23.5E, h=N, Crete. Mb= 4.8 SD 1.6 /CGS/.
- 19 eZ-Pn 22 50 34, iZ Sn 22 51 02.5, D= 260 km. BCIS: H= 22 49 55, 44 3/4N, 17 1/4E, Yugoslavia. Felt 4°- 5° at Banja Luka. /Ljubljana/.
- 20 eZ /P/ 23 17 06, BCIS: H= 23 15 04 /DECM/, 45.9N, 26.6E, h= 130 + 5 km. Rumania, Vrancea region. USCGS: H= 23 15 04.0, 45.7N, 26.6E, h= 123 km. Rumania, Mb= 4.6 SD 1.1 /CGS/.
- 21 eZ Pn 01 02 41, BCIS: H= 01 02 01 /DECM/, 46.9N, 17.6E, North of Balaton Lake. Hungary.
- 21 eZ Pn 18 19 44, eZ Sn 18 22 09, D= 1430 km. USCGS: H= 18 16 41.6, 35.2N, 23.4E, h= 5 km. Crete. Mb= 4.7 SD 1.1 /CGS/. BCIS: H= 18 16 40 /DECM/, 35.2N, 23.5E, Southwest of Crete ML= 4.3 /Athens/.
- 22 eZ 07 26 36, D= 360 km. BCIS: H= 07 23 18 /DECM/, 43.5N, 17.0E, Dalmatian coast, Yugoslavia.
- 23 eZ PKP 02 13 35, USCGS: H= 01 54 01.9, 53.5S, 140.3E, h=N, West of Macquarie Island, Mb= 4.7 SD 1.3 /CGS/.
- 23 iZ Pg 12 38 20.4, iZ Sg 12 38 23.0, D= 20 km.
- 23 eZ PKP 21 23 31, eZ PP 21 24 52, eZ SKS 21 30 34, D= 13100 km. USCGS: H= 21 04 41.3, 3.3S, 143.3E, h= 12 km, Near north coast of New Guinea. Heavy property damage at Dagua. Felt extensively in Sepik District. M= 6.8 /PAS/, 6.6-6.9 /BRK/, 7- 7 1/4 /PAL/, Mb= 6.1 Ms= 6.8 SD 1.2 /CGS/.
- 23 eZ P 21 33 08,
- 24 eZ-PKP 02 21 13, USCGS: H= 02 02 26.9, 3.5S, 143.6E, h= 40 km. Near north coast of New Guinea. Mb= 5.3 SD 0.9 /CGS/.
- 24 eZ P 04 27 57.5, USCGS: H= 04 15 16.4, 0.3N, 99.7E, h= N, Northern Sumatra, Mb= 5.1 SD 0.7 /CGS/.
- 24 eZ P 05 21 20, USCGS: H= 05 07 53.9, 45.6S, 34.1E, h= N,

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- /cont./ Prince Edward Islands region. Mb= 5.3 Ms= 5.5 SD 0.8 /CGS/.
- 24 eZ P 16 05 /00/, eZ PP 16 09 06, eZ SKS 16 16 /00/, D=11200 km. USCGS: H= 15 51 18.5, 5.9N, 127.0E, h= 70 km. Philippine Islands region. M= 6.6 /PAS/, Mb= 5.4 SD 1.3 /CGS/.
- 24 eZ P 22 47 53, USCGS: H= 22 35 50.9, 49.7N, 155.8E, h= 35 km. Kurile Islands, Mb= 5.5 SD 1.0 /CGS/.
- 25 eZ PKP 10 32 27, USCGS: H= 10 13 32.5, 19.8S, 179.6E, h= 532 km. South of Fiji Islands. Mb= 4.2 SD 0.8 /CGS/.
- 25 eZ P 10 41 36, USCGS: H= 10 29 24.1, 4.3N, 95.5E, h= 33km. Northern Sumatra, Mb= 5.5 SD 0.9 /CGS/.
- 28 eZ-Pn 12 57 09, eZ 12 59 32, BCIS: H= 12 54 29 /DECM/, 38.9 N, 26.0E, Aegean Sea. Near Island Lesbos. ML= 4.6 /Athens/. USCGS: H= 12 54 32.8, 39.0N, 25.9E, h= N, Aegean Sea. Mb= 4.5 SD 1.1 /CGS/.
- 28 eZ P 14 53 22.5, USCGS: H= 14 40 41.4, 33.4N, 140.8E, h=61 km. South of Honshu, Japan. Mb= 5.5 SD 0.9 /CGS/.
- 28 eZ P 17 58 24, USCGS: H= 17 48 29.1, 27.3N, 86.1E, h= 37km. Nepal, Mb= 4.8 SD 0.8 /CGS/.
- 28 eZ+PKHKP 23 51 42, iZ! PKIKP 23 51 51.0, eZ PP 23 54 44, D= 15400 km. USCGS: H= 23 32 28.7, 12.5S, 166.5E, h= 60 km. Santa Cruz Islands. M= 6.5 /PAS/, 6.4-6.6 /BRK/, 7.0 /GOL/, Mb= 5.9 SD 1.0 /CGS/.
- 29 eZ Pn 02 58 /05/, eZ Sn 02 58 40, /D= 310 km./,
- 29 eZ PKP 03 22 12, traces. 03 03 15.1, 20.2S, 178.0W, h= 520 km. Fiji Islands region. Mb= 4.5 SD 0.6 /CGS/.
- 29 eZ P 04 19 /00/, USCGS: H= 04 06 04.1, 31.2N, 141.6E, h= 17 km. South of Honshu, Japan. Mb= 5.7 SD 0.9 /CGS/.
- 29 eZ P 06 39 45, USCGS: H= 06 26 52.0, 31.2N, 141.7E, h= 40 km. South of Honshu, Japan. Mb= 5.1 SD 0.9 /CGS/.
- 29 eZ P 06 58 09, USCGS: H= 06 45 15.4, 31.2N, 141.7E, h= N, South of Honshu, Japan. Mb= 5.1 SD 0.9 /CGS/.
- 29 eZ PKIKP 07 39 59, iZ! PKHKP 07 40 04.0, eZ pPKP 07 42 17, USCGS: H= 07 21 16.7, 17.8S, 178.8W, h= 567 km. Fiji Islands region. Mb= 5.5 SD 0.9 /CGS/.
- 29 eZ PKP 11 46 45, eZ 11 46 52, USCGS: H= 11 26 51.8, 22.5S, 175.2W, h= N, Tonga Islands region. Mb= 5.1 SD 0.8 /CGS/.
- 29 eZ PKP 11 59 13, USCGS: H= 11 39 20.2, 22.6S, 174.9W, h=N, Tonga Islands region. Mb= 5.2 SD 0.9 /CGS/.

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- 29 eZ P 22 27 17, iZ! 22 27 21.0, USCGS: H= 22 16 15.6, 65.4N, 150.1W, h= 7 km. Alaska. Felt strongly in central Alaska. M= 6.8 /PAS/, 6.3-6.5 /BRK/, 7.0 /GOL/, 7.1 ML /CGS/, Mb= 6.0 Ms= 6.5 SD 1.0 /CGS/.
- 30 eZ P 04 15 28, USCGS: H= 04 07 20.7, 37.4N, 73.2E, h= 12 km. Tadzhik SSR, Mb= 5.5 SD 0.7 /CGS/.
- 30 eZ PKIKP 10 01 31, eZ PKP2 10 02 17.5, USCGS: H= 09 42 10.8, 31.0S, 179.9W, h= 328 km. Kermadec Islands, Mb= 4.9 SD 1.2 /CGS/.
- 30 Z 10 19 /00/, eZ 10 20 10, traces.
- 30 eZ P 11 45 59, BCIS: H= 11 41 54 /DECM/, 35.1N, 3.4W, Maroc, Near the coast of Alboran Sea. Felt 4^o at Al Hoceima /Rabat /, USCGS: H= 11 41 56.9, 35.1N, 3.6W, h= 34 km. Straits of Gibraltar. Mb= 4.6 SD 1.2 /CGS/.
- 30 eZ P 16 56 05, BCIS: H= 16 51 37 /DECM/, 38.0N, 38.6E, Taurus /Turkey/, MLH= 5.1 /Collm/, 4.6 /Pruhonice/, USCGS: H= 16 51 33.5, 37.9N, 38.6E Turkey, h= 3 km. Mb= 4.9 SD 1.1 /CGS/.
- 30 eZ Pn 18 01 14, eZ Sn 18 02 /52/, , D= 650 km.
- 30 eZ P 18 26 42,
- 31 iZ Pn 03 25 24.5, eZ Sn 03 27 50, D= 1430 km. BCIS: H= 03 22 17, /DECM/, 36.6N, 27.1E, depth normal. Dodecanese Islands, Island Kos. M= 5.6 /Athens/, 5.5 /Roma/, MLH= 5.3 /Collm/, 4.8 /Pruhonice/. USCGS: H= 03 22 15.0, 36.6N, 27.1E, h= 11 km. Dodecanese Islands. Mb= 5.1 SD 0.8 /CGS/.
- 31 Z Pn 07 03 /00/, eZ Sn 07 04 37, /D= 940 km./, Athens: H= 07 00 45, 37.9N, 20.3E.
- 31 eZ P 09 20 28.5, eIZ PKP 09 24 56, eZ SKS 09 31 34, eZ 5 09 32 25, D= 11900 km. USCGS: H= 09 06 36.4, 1.2N, 126.3E, h= N, Molucca Passage, Mb= 6.1 Ms= 6.0 SD 1.0 /CGS/.

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- 1 iZ P 00 30 58.6, USCGS: H= 00 21 42.8, 0.9S, 13.4W, h= N, North of Ascension Island. Mb= 5.1 SD 0.7 /CGS/.
- 1 eZ PKIKP 01 52 24, eZ PKP 01 53 23, USCGS: H= 01 32 23.3, 41.6S, 175.0E, h= 29 km. North Island, New Zealand, Mb= 5.5 SD 1.3 /CGS/.
- 2 eZ P or PKP 03 38 27,
- 2 eZ 04 43 32, eZ /Sn/ 04 44 31, traces.

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- 2 iZ /Pn/ 05 49 54.8, eZ /Sn/ 05 50 49,
- 3 iZNE-Pn 04 50 51.7, iZNE Sn 04 51 48.6, D= 550 km. BCIS: H= 04 49 33, 42.ON, 19.3E, South of Montenegro, Yugoslavia. MLH= 5.8 /Collm/, 5.7 /Moxa/, one dead, 5 injured at Pistuli near Ulcinj /Press/. M= 5.5 /Pruhonice/, ML= 5.4 /Athens/, 5.2 /Beograd/.
- 3 eZNE Pn 05 17 30.8, iZNE Sn 05 18 27, Z Sg 05 19 /00/, D= 550 km. Montenegro, aftershock.
- 3 eZ 05 40 48, eZ Sn 05 40 38,
- 3 eZ Pn 09 51 52, eZ/Sn/ 09 52 51, /D= 550 km./,
- 3 eZ Pn 13 33 18, eZ /Sn/ 13 34 16, /D= 550 km./,
- 3 eZ P 18 43 09, BCIS: H= 18 40 01/DECM/, 38.8N, 28.7E, West. Anatolia. Felt in western Anatolia and on the region of Marmara Sea./Istanbul-K./, Strongly felt at Simav /39.1N, 29.0E/ /Çinê/.
- 3 eZ Pn 19 17 28, eZ 19 18 37,
- 4 eZ P 09 11 22, USCGS: H= 09 02 31.8, 12.2N, 58.0E, h= N, Mb= 5.1 SD 1.3 /CGS/.
- 4 eiz-P 09 26 04, USCGS: H= 09 07 38.5, 14.2S, 172.0E, h= 585 km. New Hebrides Islands region. M= 6 1/2 /PAS/, 6 1/4 /BRK/, Mb= 5.8 SD 0.9 /CGS/.
- 4 eZ Pn 15 22 07, Z 15 23 /00/,
- 4 eZ 20 08 55, eZ 20 09 20, traces. BCIS: H= 20 05 58 /DECM/, 36.ON, 27.0E, Dodecanese, ML= 4.6 /Athens/.
- 5 eZ Pn 00 48 41, eZ Sn 00 50 16, D= 910 km, Athens: H= 00 46 23, 37.8N, 20.3E, ML= 3.8,
- 5 eZ P 02 11 30, USCGS: H= 02 02 44.2, 32.4N, 76.4E, h= N, Kashmir-India border region, Mb= 4.9 SD 1.3 /CGS/.
- 5 eiz+Pn 05 21 39.2, iZ Sn 05 22 40.8, D= 560 km.
- 6 iZ Pg 13 32 /54.5/, iZ Sg 13 32 57.9, /D= 30 km/.
- 6 eZ P 13 45 08, BCIS: H= 13 41 06 /DECM/, 35.2N, 32.9E, h= 70 km. Northern coast of Cyprus.
- 7 eZ PKP 03 52 39, USCGS: H= 03 32 50.8, 16.6S, 172.7W, h=N, Samoa Islands region, Mb= 5.1 Ms= 5.5 SD 1.1 /CGS/.
- 7 eZ P 05 20 28,
- 7 eZ P 09 31 23, USCGS: H= 09 19 07.3, 40.2N, 142.3E, h= 61

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- /cont./ km. Near east coast of Honshu, Japan. Mb= 4.9 SD 08 /CGS/.
- 7 iZ+P 10 08 43.1, Z PP 10 10 /00/, iZ 10 11 37.0, eZ S 10 14 07, D= 3660 km. BCIS: H= 10 02 07, 73.5N, 55.0E, Novaya Zemlya, probably artificial, MPV= 6.5 /Pruhonice/, m=6.3 /Uppsala/, MLH= 5.3 /Pruhonice/, USCGS: H= 10 02 05.3, 73.4N, 54.9E, h=0 km. G, Novaya Zemlya, M= 6 1/4 - 6.5 /BRK/, Mb= 6.0 SD 1.0 /CGS/.
- 8 eZ PKHKP 08 01 57, eZ PKIKP 08 02 04, USCGS: H= 07 42 57.3, 13.3S, 167.2E, h= 192 km. New Hebrides Islands, Mb= 5.1 SD 0.8 /CGS/.
- 8 eZ PKP 18 46 07, USCGS: H= 18 27 26.7, 19.5S, 179.2W, h= 670 km. Fiji Islands region. Mb= 5.2 SD 1.0 /CGS/.
- 9 iZ P 17 12 59.8, USCGS: H= 17 01 41.1, 37.96N, 88.46W, h= 19 km. Southern Illinois. Several injured and minor damage in widely scattered areas. Felt in 23 states and Ontario, Canada. Maximum Intensity 7⁰. Epicenter based on regional crustal model and Pn velocity of 8.24 km./sec. to distance of 810 km. Depth based on observed depth Phases. M= 5- 5 1/2 /PAL/, 6.0 /GOL/, Mb= 5.3 /CGS/.
- 10 eZ P 17 14 44, iZpP 17 14 55.9, USCGS: H= 17 01 59.2, 20.0 N, 121.4E, h= N, Philippine Islands region. Felt at Basco. Mb= 5.2 Ms= 5.5 SD 1.1 /CGS/.
- 10 iZ P 21 37 54, iZ pP 21 38 14, USCGS: H= 21 24 51.7, 3.6S, 102.0E, h= N, Southern Sumatra. Mb= 5.3 SD 1.0 /CGS/.
- 10 Z 23 50 /00/, eZ /Sn/ 23 50 44, weak.
- 11 iZ+P 09 05 37.7, USCGS: H= 08 53 52.0, 57.3N, 155.3W, h= 59 km. Alaskan Peninsula. Mb= 5.3 SD 0.9 /CGS/.
- 11 iZ Pg 09 46 03.2, iZ Sg 09 46 08.4, D= 45 km.
- 11 iZ+ P 14 53 37.4, eZ PP 14 55 53, D= 9100 km. USCGS: H= 14 41 15.9, 40.1N, 143.0E, h= 35 km. Off east coast of Honshu, Japan, Mb= 5.5 Ms= 5.9 SD 1.0 /CGS/.
- 11 eZ Pn 23 37 30, eZ Sn 23 39 39, D= 1290 km. BCIS: H= 23 34 21 /DECM/, 36.8N, 27.0E, Dodecanese Islands. Island Kos, M= 5 /Roma/, 4.9 /Athens/, 4.9 /Collm/, 4.4 /Pruhonice/, USCGS: H= 23 34 21.0, 36.7N, 27.1E, h= 23 km. Dodecanese Islands. Felt on Kos, Nisiros and Rhodes. Mb= 4.8 SD 1.6 /CGS/.
- 12 ei+P 00 56 47, USCGS: H= 00 44 12.8, 27.5N, 128.4E, h= 48km, Ryukyu Islands. Mb= 5.8 Ms= 5.6 SD 1.2 /CGS/.
- 12 eZ Pn 03 40 45, BCIS: H= 03 37 37 /DECM/, 36.8N, 27.1E, Dodecanese Islands. Island Kos. M= 5.0 /Athens/, 4.9 /Roma/, 4.8 /Collm/, 4.4 /Pruhonice/, USCGS: H= 03 37 37.5, 36.6N,

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- /cont./ 27.3E, h= 24 km. Dodecanese Islands, felt on Kos., Nisiros and Rhodes. Mb= 4.7 SD 1.3 /CGS/.
- 12 eZ 04 10 00, traces.
- 12 eZ 06 12 05, traces, BCIS: H= 06 08 49 /DECM/, 36.5N, 27.6 E, Dodecanese, M= 4.8 /Collm, Roma/, 4.4 /Pruhonice/. USCGS: H= 06 08 54.3, 36.6N, 27.3E, h= 24 km. Dodecanese. Felt on Islands Kos, Nisiros, and Rhodes. Mb= 4.7 SD 1.6 /CGS/.
- 12 eZ P 09 09 49, traces. USCGS: H= 08 57 27.1, 41.2N, 143.9 E, h= 17 km. Hokkaido, Japan region. Mb= 5.3 SD 1.1 /CGS/.
- 12 eZ P 10 06 15, USCGS: H= 09 53 42.2, 29.2N, 129.4E, h= 22 km. Ryukyu Islands. Mb= 5.4 Ms= 5.1 SD 1.2 /CGS/.
- 12 eZ PKP 22 20 22, weak, USCGS: H= 22 00 39.1, 15.6S, 172.8W, h= 47 km. Samoa Islands region. Mb= 5.2 SD 1.6 /CGS/.
- 13 eZ- PKP 16 08 17, USCGS: H= 15 49 26.4, 20.8S, 178.8W, h= 590 km. Fiji Islands region. Mb= 5.2 SD 0.9 /CGS/.
- 13 eZ 17 36 13, eZ /Sn/ 17 36 50, traces.
- 13 eZ+P 18 54 06, USCGS: H= 18 41 47.9, 40.2N, 142.5E, h= 49 km. Near east coast of Honshu, Japan, Mb= 5.5 Ms= 5.8 SD 1.0 /CGS/.
- 13 eZ PKP 21 54 37, USCGS: H= 21 35 47.9, 18.4S, 178.0W, h= 549, km. Fiji Islands region. Mb= 4.9 SD 1.0 /CGS/.
- 14 eZ PKP 11 54 44, eZ pPKP 11 55 40, USCGS: H= 11 35 12.0, 20.0S, 176.0W, h= 220 km. Fiji Islands region. Mb= 5.1 SD 0.9 /CGS/.
- 14 eZ Pn 23 16 39, iZ Sn 23 17 39.1, iZ Sg 23 18 11.9, D= 560 km. Athens: H= 23 15 18, 41.9N, 19.1E, M= 3.8 /Beograd/.
- 14 iZ PKP 23 28 30.8, USCGS: H= 23 08 54.4, 21.5S, 170.1E, h= 103 km. Loyalty Islands region. Mb= 5.4 SD 1.0 /CGS/.
- 15 Z 02 23 /00/, eZ /Sn/ 02 23 18, traces.
- 15 eZ P 06 32 21, BCIS: H= 06 25 36 /DECM/, 37.5N, 58.2E, Iran-URSS border region, east of Caspian Sea. MLH= 5.7 /Collm/, M= 5 1/2 /Uppsala/.
- 15 eZ /Pn/ 11 57 38, eZ 11 58 44, eZ Sn 11 59 15,
- 16 Z PKP 00 43 /00/, USCGS: H= 00 23 40.7, 18.0S, 168.5E, h= 173 km. New Hebrides Islands, Mb= 5.3 SD 1.0 /CGS/.
- 16 eZ Pn 00 46 22, eZ 00 47 15,
- 16 iZ Pg 05 00 28.8, iZ Sg 05 00 30.1, traces, local.
- 16 iZ+PKP 08 05 28.2, USCGS: H= 07 45 51.7, 16.6S, 175.9E,

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- /cont./ h= 66 km. Fiji Islands region. M= 6-6 1/4 /PAS/, 6.3- 6.5 /BRK/, 6- 6 1/4 /GOL/, Mb= 5.6 SD 1.0 /CGS/.
- 16 iZ Pn 09 13 18.5, iZ 09 14 08.0,
- 17 iZ P 00 28 08.0, iZ pP 00 28 48.4, USCGS: H= 00 16 08.6, 9.6 N, 72.6W, h= 172 km. Venezuela, slight damage at Maracaibo. Felt at Caracas and San Cristbal. M= 6 1/2 - 6 3/4 /PAS/, Mb= 5.7 SD 1.3 /CGS/.
- 17 eZ P 07 50 32, eZ PP 07 52 29, D= 5800 km. USCGS: H= 07 41 16.1, 1.3S, 13.6W, h=N, North of Ascension Island. M= 6 1/2 /GOL/, Mb= 5.3 Ms= 5.8 SD 1.4 /CGS/.
- 17 iZ Pg 11 04 40.0, iZ Sg 11 04 50.8, D= 93 km.
- 18 iZ Pn 14 53 47.6, iZ Sn 14 54 49.2, eZ Sg 14 55 19, D= 580 km. Athens: 14 52 26, 42.0N, 19.1E.
- 21 eZ PKP 02 56 20, USCGS: H= 02 36 21.8, 20.9S, 174.1W, h=N, Tonga Islands, Mb= 5.0 SD 0.8 /CGS/.
- 21 Z P 03 13 /00/, USCGS: H= 03 04 39.0, 36.4N, 70.6E, h= 204 km. Hindu-Kush region. Felt at Dushanbe, Tadzhik SSR.
- 21 eZ Pn 22 51 /42/, eZ Sn 22 52 30, eZ 22 52 55, BCIS: H= 22 50 03 /DECM/, 46.3N, 6.8E, Haut Savoia /France/. Felt at Abondance.
- 22 eZ P 09 12 24, USCGS: H= 08 59 23.1, 16.3N, 122.3E, h= 26 km Luzon, Philippine Islands, felt throughout Luzon. Mb= 5.3 M s= 5.8 SD 1.0 /CGS/.
- 22 Z Pn 10 09 /00/, eZ Sg 10 09 47, D= 320 km. BCIS: H= 10 08 20 /DECM/, 47.5N, 11.0E, Bavarian Alps, Germany-Austria borde-region.
- 24 eZ PKP 21 29 32, USCGS: H= 21 09 47.9, 15.6S, 176.0W, h= N, Fiji Islands region. Mb= 5.3 SD 1.2 /CGS/.
- 24 iZ+P 21 33 16.8, USCGS: H= 21 20 59.9, 40.3N, 142.3E, h=51, Near east coast of Honshu, Japan, Mb= 5.9 /CGS/.
- 25 eZ P 18 50 48, Z /PP/ 18 54 /00/, USCGS: H= 18 36 53.0, 5.0N, 126.9E, h= 31 km. Mindanao, Philippine Islands. Mb=5.4 Ms= 6.2 SD 1.1 /CGS/.
- 26 eZ PKP 01 29 07, USCGS: H= 01 10 12.9, 5.3S, 152.0E, h= 68 km. New Britain region. Felt at Rabaul. Mb= 5.5 SD 1.0 /CGS/.
- 26 iZ Pn 15 36 46.8, eZ /Sn/ 15 38 08, /D= 780 km./,
- 26 eZ P 18 41 39, USCGS: H= 18 31 51.8, 55.9N, 111.4E, h= 4 km Lake Baikal region. Mb= 5.1 SD 0.9 /CGS/.
- 27 eZ 01 20 30, eZ Sn 01 21 50, traces.

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- 28 eZ P 10 49 07, USCGS: H= 10 36 07.7, 15.4N, 94.6W, h=33 km. Near coast of Oaxaca, Mexico. M= 6.1 /PAS/, Mb= 5.2 Ms= 6.4 SD 1.0 /CGS/.
- 28 eZ PKP 16 49 21.3, Z pPKP 16 50 /OO/, USCGS: H= 16 30 32.1 6.1, 156.2E, h= 169 km. Solomon Islands. Felt at Mali. Mb = 5.7 SD 0.9 /CGS/.
- 29 eZ 19 54 16, eZ Sn 19 54 30, traces.

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- 1 eZ P 12 28 16
- 2 eZ Pn 00 57 20, iZ 00 57 24.2.
- 3 iZ Pg 01 58 /46/, iZ Sg 01 58 52.1, D= 60 km.
- 3 eZ Pg 13 59 50, iZ /Sg/ 13 59 55,
- 3 iZ Pn 20 58 23.6, iZ Pg 20 58 33.9, iZ Sn 20 59 03.2, iZ Sg 20 59 16.3, D= 350 km. BCIS: H= 20 57 33 /DECM/, 44.4N, 18.5E, Bosnia, Yugoslavia. Epicenter: 44°40'N, 18°22'E, /Beograd/, Tuzla region, 35 injured. Felt at Sarajevo and in northeastern Bosnia/Press/. M= 5.0 /Beograd/, ML=4.5 /Collm/, 4.4/Pruhonice/, 4.3/Moxa/, USCGS: H= 20 57 31.2 44.6N, 18.4E, h= 7 km. Yugoslavia. At least 35 injured at Tuzla. Mb= 4.7 SD 0.9 /CGS/.
- 4 eZ Pn 18 55 38, weak. BCIS: H= 18 52 19 /DECM/, 36.4N, 26.9 E, Sea of Crete. USCGS: H= 18 52 17.6, 36.5N, 27.1E, h= 42 km. Dodecanese Islands. Mb= 3.9 SD 1.5 /CGS/.
- 4 eZ Pn 19 40 /28/, eZ 19 40 40, weak. BCIS: H= 19 37 23 /D ECM/, 36.5N, 27.0E, Aegean Sea. MPV= 5.1, MLV= 4.7, MLH= 4.6 /Moxa/, USCGS: H= 19 37 23.5, 36.5N, 27.1E, Aegean Sea. MPV= 5.1, MLH= 4.6, MLV= 4.7 /Moxa/, h= 51 km. Dodecanese Islands, Mb= 4.7 SD 1.0 /CGS/.
- 4 eZ P 21 50 50, USCGS: H= 21 41 32.6, 8.4N, 58.4E, h= N, Carlsberg ridge. Mb= 5.1 SD 0.8/CGS/.
- 5 eZ P 07 55 18, iZ! 07 55 20.6, BCIS: H= 07 52 09 /DECM/, 36.6N, 26.9E, depth normal, Aegean Sea, Island Kos region. M= 6.2 /Athens/, 5.9/Uppsala/, MPH= MSH= 5.9 /Collm/, MPH= 5.8 /Pruhonice/, MLV= 5.8 /Moxa/, MLH= 5.7 /Praha/, 5.6 /Moxa, Strasbourg/, 5.5 /Collm/, 5.4 /Pruhonice/, USCGS: H= 07 52 11.0, 36.6N, 27.0E, h= 35 km. Dodecanese Islands. Felt. Mb= 5.5 SD 1.0 /CGS/.
- 5 eZ P 09 13 36, USCGS: H= 09 01 26.4, 5.1N, 95.8E, h= N, Northern Sumatra, Mb= 4.8 SD 0.9 /CGS/.
- 5 eZ P 09 49 54, BCIS: H= 09 44 09 /DECM/, 63.9N, 22.0W,

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- /cont./ Iceland, 35 km SSW of Reykjavik. Felt 6° MCS at Hafnarfjordur, 5°-6° at Reykjavik /Smithsonian Institution/ MPV= MPH= 6.5 /Praha/, MSH= 6.4 /Praha/, 6.3 /Moxa/, MPH= 6.3 /Pruhonice/, MLV= 6.2/Moxa/, M= 6.1 /Uppsala/, MLH= 6.1 /Praha/, 6.0 /Collm/, MLG= 6.0 /Moxa/, MLH= 5.8 /Pruhonice/ USCGS: H= 09 44 11.0, 63.9N, 21.7W, h= 56 km. Iceland region. Felt at Hafnarfjordur and Reykjavik. M= 5.9 /PAS/, 6 1/4 /BRK/, 6.0 /GOL/, Mb= 5.5 Ms= 6.0 SD 1.1 /CGS/.
- 5 Z Pn 22 34 /CO/, iZ Sn 22 34 33.2, D= 270 km. BCIS: H= 22 33 15 /DECM/, 44.7N, 17.4E, Bosnia, Yugoslavia. Banja Luka region.
- 5 eZ 23 11 56, eZ 23 12 12, traces.
- 6 iZ Pg 09 31 58.8, iZ Sg 09 32 01.1 D= 20 km, local, weak.
- 6 eZ 15 45 18, eZ /Sn/ 15 45 59, weak.
- 6 Z P 22 19 00, USCGS: H= 21 59 07.9, 16.9S, 172.5W, h= N, Samoa Islands region. Mb= 4.5 SD 1.1 /CGS/.
- 7 eZ PKP 05 16 42, eZ PP 05 18 11, eZ PKS 05 20 23, eZ SKS 05 23 26, D= 13300 km. USCGS: H= 04 57 49.0, 3.4S, 145.9E, h= 15 km, Near north coast of New Guinea. M= 6.2 /PAS/, 6.3/4 /BRK/, Mb= 5.3 Ms= 6.5 SD 1.6 /CGS/.
- 7 eZ P 15 53 13, USCGS: H= 15 40 57.9, 51.6N, 175.7E, h=N, Rat Islands, Aleutian Islands. Mb= 5.3 Ms= 5.4 SD 1.5/CGS/
- 7 eZ P 15 58 57, USCGS: H= 15 46 45.2, 51.6N, 175.8E, h= 59 km. Rat Islands, Aleutian Islands. Mb= 5.0 SD 1.0 /CGS/.
- 7 eZ P 16 05 /32/, USCGS: H= 15 53 05.5, 51.5N, 175.6E, h=N, Rat Islands, Aleutian Islands. Mb= 4.7 SD 1.4 /CGS/.
- 7 eZ PKP 17 29 /12/, USCGS: H= 17 09 52.5, 14.0S, 166.8E, h= 56 km. New Hebrides Islands. Mb= 5.1 SD 1.0 /CGS/.
- 7 eZ P 17 32 53,
- 7 eZ 20 54 15, eZ PP 20 55 48, USCGS: H= 20 35 21.2, 45.0S, 80.3W, h=N, Off coast of southern Chile. Mb= 5.6 SD 1.2 /CGS/.
- 7 eZ PKHKP 21 55 20, iZ PKIKP 21 55 23.0, iZ pPKP 21 55 40.0 USCGS: H= 21 35 44.8, 20.7S, 169.4E, h= 61 km. D, New Hebrides Islands. M= 6 /PAS/, 6 /BRK/, Mb= 5.6 SD 1.1 /CGS/.
- 8 eZ+P 09 21 08, USCGS: H= 09 08 34.5, 27.4N, 128.3E, h= 54 km. Ryukyu Islands. Mb= 5.1 SD 1.0 /CGS/.
- 9 iZ Pg 05 13 03, iZ Sg 05 13 11.2, D= 60 km. BCIS: H= 05 12 56, /DECM/, 45.7N, 14.1E, Slovenia, Yugoslavia. Felt 3°-4° at Ilirska Bistrica /Ljubljana/, 2° at Trieste /Trieste/.

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- 10 eZ Pn 11 30 41, eZ Sn 11 32 16, D= 930 km. BCIS: H= 11 28 35, /DECM/, 38.7N, 21.5E, Greece, Ms= 4.6 /Athens/, USCGS: H= 11 28 37.5, 38.9N, 21.6E, h= 65 km. Greece, Mb= 4.6 SD 1.1 /CGS/.
- 11 iZ P 11 57 58.3, USCGS: H= 11 45 30.8, 33.6N, 134.0E, h=32 km. D, Shikoku, Japan. Mb= 5.4 SD 0.8 /CGS/-
- 12 eZ PKIKP 07 38 41, iZ PKHKP 07 38 44.3, eZ PKP2 07 38 56, D= 16900 km. USCGS: H= 07 19 44.8, 16.0S, 177.8W, h= 431 km. Fiji Islands region. Mb= 5.5 SD 1.5 /CGS/.
- 14 eZN, Pn 17 45 53.6, iZN Sn 17 46 31.5, iZN Sg 17 46 43.4, D= 200 km. BCIS: H= 17 45 08, cca 43 1/2N, 12.0E, Central Italy.
- 15 eZ+P 02 26 33, USCGS: H= 02 14 17.5, 51.6N, 175.8E, h= n, Rat Islands, Aleutian Islands, M= 6 1/4-6 1/2 /PAS/, 5 3/4 /BRK/, Mb= 5.7 Ms= 6.2 SD 1.1 /CGS/.
- 15 eZ P 02 40 47, USCGS: H= 02 28 32.4, 51.7N, 17.5E, h=N, Rat Islands, Aleutian Islands, Mb= 6.1 SD 1.2 /CGS/.
- 16 iZ-P 11 06 18.5, USCGS: H= 10 46 46.6, 18.0S, 168.1E, h=49 km. New Hebrides Islands, Mb= 5.1 Ms= 5.4 SD 0.9 /CGS/.
- 17 iZ P 12 13 41.0, iZ 12 14 17.5, USCGS: H= 12 02 15.0, 60.2 N, 152.8W, h= 86 km. Southern Alaska. Felt in south central area. M= 6 1/2 /PAS/, 6 1/2 /BRK/, Mb= 5.9 SD 1.2 /CGS/.
- 18 eZ PKP 20 22 51, USCGS: H= 20 03 43.9, 19.9S, 177.6W, h= 367 km. Fiji Islands region. Mb= 5.5 SD 1.0 /CGS/.
- 18 eZ P 21 06 05, USCGS: H= 20 56 48.3, 8.4N, 58.4E, h= N, Carlsberg ridge. Mb= 4.8 SD 1.2 /CGS/.
- 19 iZ+P 05 25 32.1, USCGS: H= 05 17 51.6, 36.1N, 70.1E, h= 151 km. HinduKush region. Mb= 5.4 SD 1.0 /CGS/.
- 19 iZ P 15 27 45.5, USCGS: H= 15 15 55.7, 53.3N, 160.1E, h=N, Near east coast of Kamchatka, Mb= 5.4 Ms= 5.6 SD 1.0 /CGS/.
- 19 eZ P 16 42 42, eZ 16 43 03, eZ PP 16 46 00, D= 9550 km. US CGS: H= 16 30 00.0, 37.2N, 116.5W, h= 0 km. Southern Nevada. 37°13'53.3"N, 116°28'24.9"W, Nevada test Site "Benham" shot elevation 512.1 meters /AEC/, h=0 km. Mb= 6.3 Ms= 5.6 /CGS/.
- 21 eZ P 00 39 36, BCIS: H= 00 36 36 /DECM/, 36.5N, 27.0E, Dodecanese, ML= 4.8 /Athens/. USCGS: H= 00 36 37.3, 36.6N, 27.1E, h= 17, km. Dodecanese Islands. Mb= 4.6 SD 1.2 /CGS/.
- 22 eZ P 09 17 04, USCGS: H= 09 06 36.3, 36.2N, 101.9E, h= N, Tsinghai Province, China. Mb= 5.5 SD 1.0 /CGS/.
- 22 eZ P 16 56 38, USCGS: H= 16 44 44.2, 56.3N, 153.8W, h=N,

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- /cont./ Kodiak Island region. M= 5.1 /BRK/, Mb= 5.3 SD 1.0 /CGS/.
- 23 eZ Pn 11 36 16, eZ Sn 11 37 31, D= 720 km. BCIS: H= 11 34 40 /DECM/, 39.8N, 17.0E, Gulf of Taranto /Italy/, USCGS: H= 11 34 38.5, 39.7N, 16.8E, h= N, Southern Italy, Mb= 4.1 SD 1.1 /CGS/.
- 23 eZ P 16 09 57,
- 24 eZ P 13 12 23, USCGS: H= 12 59 39.0, 18.1N, 120.1E, h= 53km. Luzon, Philippine Islands, felt at Ladag City. Mb= 5.1 SD 1.1 /CGS/.
- 25 eZ P 04 08 52, USCGS: H= 03 56 39.2, 41.7N, 142.8E, h= 36 km. Hokkaido, Japan region. Felt on Hokkaido, Mb= 5.3 Ms= 4.8 SD 1.0 /CGS/.
- 25 eZ P 12 20 24, eZ S 12 22 49, D= 1460 km. BCIS: H= 12 17 19 /DECM/, 34.9N, 24.4E, h= 80 km. South of Crete. USCGS: H= 12 17 20.8, 35.1N, 24.3E, h= 68 km. Crete. Mb= 5.0 SD 1.0 /CGS/.
- 27 eZ P 14 48 47, eZ 14 48 56, USCGS: H= 14 38 11.6, 24.1N, 91.6E, h= 26 km. India-east Pakistan border region. Felt at Shillong, India. Mb= 5.2 SD 0.8 /CGS/.
- 29 iZ Pn 03 21 34.6, iZ Sn 03 22 08.0, D= 290 km.
- 29 eZ P 18 06 58, eZ pP 18 07 12, USCGS: H= 17 54 15.3, 0.5S, 99.2E, h=N, Southern Sumatra, M= 4.6 SD 0.6 /CGS/.
- 29 eZ PKP 20 22 13, USCGS: H= 20 03 19.4, 20.2S, 177.9W, h= 550 km. Fiji Islands region. Mb= 4.5 SD 0.8 /CGS/.
- 30 eZ PKIKP 05 08 29, eZ PKHKP 05 08 32.5, eZ PKP2 05 08 40.5, USCGS: H= 04 48 40.9, 16.3S, 172.6W, h= N, Samoa Islands region, Mb= 5.2 SD 1.1 /CGS/.
- 30 eZ P 07 14 /55/, USCGS: H= 07 03 11.7, 57.6N, 151.4W, h= 34 km. Kodiak Island region. Felt in the Palmer-Anchorage area Mb= 5.4 SD 0.9 /CGS/.
- 30 eZ P 10 33 /23/, BCIS: H= 10 27 06 /DECM/, 76.9N, 11E, North Atlantic ridge, west of Svalbard, MSH= 5.5 MLH= 4.9/Collm/, 4.7/Pruhonce/, USCGS: H= 10 27 09.7, 76.2N, 7.5E, h= 23km. D, Svalbard region, M= 5 1/2 - 5 3/4 /GOL/, Mb= 5.0 Ms= 5.5 SD 1.0 /CGS/.
- 31 eZ Pn 06 00 40, iZ 06 01 22.2, eZ /Sn/ 06 01 37,
- 31 eZ Pn 12 05 33, eZ /Sn/ 12 06 17, D= 410 km.
- 31 iZ+Pn 17 05 33.6, iZ Sn 17 05 46, D= 100 km.

Ljubljana, August 21, 1970

 Interpretation: M. Hržič
 Redaction: V. Ribarič

dup.

University of Ljubljana
Astronomical and Geophysical Observatory

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

X — XII 1968

Ljubljana 1969

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.Box 01-20, Yugoslavia

1968

P R E L I M I N A R Y S E I S M O L O G I C A L

B U L L E T I N

/ October - December 1968 /

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.Box 01-20, Yugoslavia

PRELIMINARY SEISMOLOGICAL BULLETIN
from October 1, to December 31, 1968

Station: Ljubljana / LJU / - Coordinates: $46^{\circ} 02.6' N$ Lat.
 $14^{\circ} 32.0' E$ Long.
Geocentric direction cosines: $a = + 6743$, $b = +1748$, $c = + 7175$
 $d = - 8$, $h = - 4$
Height above sea level: 396 m.
Lithologic fundation: sandstone /carbon/.

Instruments:

Wiechert, horizontal astatic seismograph, $M = 200$ km, mechanical registration, 16-18 mm/min.

Constants / 31.1.1966 /:	To	v:l	r/T_0^2	V
N-S	5.0	2.20	0.0043	69
E-W	4.9	2.37	0.0058	67

Hiller-Stuttgart, vertical component Z with galvanometrical recording. $T_0 = 1.5$ sec, $T_g = 1.5$ sec, $D_1 = D_2 = 1$, $V_{max} = 10150x$,

Note: Periods of seismic waves are given in seconds, the amplitudes in microns. Sign. + means compression or movement of ground towards north or east, sign. - means dilatation or movement of ground south or west. All times are given in GMT. Time signals are received one or two times daily and are registered on a chronograph. Wherever possible time readings up to one tenth of a second are given. Macro seismic data refer to Mercalli-Cancani-Sieberg scale / MCS /. Macro seismic rays are given in kilometers. Abbreviation DECM means: Determination was made by electronic computer.

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1. $iZ+P_n$ 16 32 31.7, eZ S_n 16 33 30, $D = 560$ km, BCIS: $H = 16$ 31 03 /DECM/, $40.2N$, $15.4E$, $h = 287+9$ km, Campania /Italy/, near coast of Tyrrhenian Sea. USCGS: $H = 16$ 31 03.1, $40.2N$,

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- /cont./ 15.4E, h= 291 km, Southern Italy, Mb= 4.2 SD 0.9 /CGS/.
- 2 eZ Pn 02 11 22.5, eZ Sn 02 11/41/, /D= 150 km./ BCIS: H= 02 1.00, 47.1N, 14.4E, /Wien-K./, Steyer, Austria. Io= 4^c 5^o, epicenter near Neumarkt /Wien- K./
- 2 eZ P 09 21 11.2, USCGS: H= 09 09 50.8, 27.2N, 140.1E, h= 436 km. Bonin Islands region. Mb= 4.8 SD 0.8 /CGS/.
- 2 eZ- Pg 11 14 22, eZ Sg 11 14 25, D= 24 km. Local, weak.
- 2 eZ PKIKP 13 40 38, eZ PKHKP 13 40 43.4, USCGS: H= 13 21 56.5, 17.6S, 178.8W, h= 560 km. Fiji Islands region. Mb= 4.4 SD 1.0 /CGS/.
- 3 eZ PKP 08 23 14, USCGS: H= 08 04 55.6, 3.8 S, 128.5E, h=97 km. Ceram. Mb= 5.6 SD 0.9 /CGS/.
- 3 eZ P 12 38 /00/, USCGS: H= 12 25 14.2, 19.6N, 122.0E, h=40 km. Philippine Islands, Mb= 4.8 SD 1.2 /CGS/.
- 3 eZ Pn 18 20 15, eZ Sn 18 21 35, eZ 18 22 42, D= 790 km, Athens: H= 18 18 29, 40.2N, 19.5E, ML= 4.1,
- 4 Z 06 22 /00/, eZ PKP 06 23 08, eZ PP 06 23 13, D= 12000km, USCGS: H= 06 04 31.9, 56.2S, 27.0W, h= 63 km. South of Sandwich Islands region, Mb= 5.9 SD 1.1 /CGS/.
- 4 eZ PP 07 46 /25/, USCGS: H= 07 27 16.3, 7.6S, 126.5E, h= 32 km. Banda Sea, Mb= 5.8, SD 0.9 /CGS/.
- 4 eZ PKIKP 07 48 17, eZ PYP2 07 48 28, USCGS: H= 07 28 27.1, 17.4S, 172.7W, h= N, Tonga Islands region. Mb= 5.0 SD 0.7 /CGS/.
- 5 iZ-P 15 18 15.5, USCGS: H= 15 12 51.0, 41.7N, 49.5E, h= 56 km. Caspian Sea, Mb= 5.1 SD 0.9 /CGS/.
- 6 eZ Pn 00 43 21, eZ Sn 00 45 11, D= 1090 km. BCIS: H= 00 40 45 /DECM/, 36 3/4N, 22 1/4E, South of Peloponissos, ML= 3.7 /Athens/. USCGS: H= 00 40 44.0, 36.9N, 21.9E, h= 55 km. Southern Greece, Mb= 4.3 SD 0.9 /CGS/.
- 6 eZ PKP 03 11 24, USCGS: H= 02 51 46.1, 15.6S, 173.2W, h= 106 km, Tonga Islands, M= 5.1-5.5 /BRK/, Mb= 5.0 SD /CGS/.
- 6 eZ+P 07 53 57, USCGS: H= 07 42 25.2, 10.ON, 93.7E, h= 111 km, Andaman Islands region. Mb= 5.1 SD 0.9 /CGS/.
- 6 eZ PKP 05 34 54, USCGS: H= 05 15 11.5, 15.OS, 175.5W, h=N, Tonga Islands, M= 4.9-5.3, Mb= 5.3, Ms= 6.0 SD 1.2 /CGS/.
- 6 eZ PKP 09 06 45, USCGS: H= 08 47 02.0, 14.7S, 175.6W, h=35 km, Samoa Islands region, M= 5.8-6.2 /BRK/, Mb= 5.4 Ms=6.0

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- /cont./ SD 1.1 /CGS/.
- 6 eZ PKP 09 25 08, traces. USCGS: H= 09 05 19.9, 14.9S, 175.2 W, h= N, Samoa Islands region. Mb= 4.4 SD 0.8 /CGS/.
- 6 eZ PKP 09 34 42, USCGS: H= 09 15 01.1, 14.8S, 175.1W, h= N, Samoa Islands region, Mb= 5.0 SD 1.0 /CGS/.
- 6 eZ Pn 15 09 42, eZ 15 12 26, BCIS: H= 15 06 38 /DECM/, 36.9 26.7E, Dodecanese Islands, ML= 4.7 /Athens/, USCGS: H= 15 06 44.8, 36.9N, 26.5E, h= 40 k m. Dodecanese Islands. Mb= 4.7 SD 1.1 /CGS/.
- 6 eZ 22 00 02, traces.
- 6 eZ Pn 22 10 48, BCIS: H= 22 07 11 /DECM/, 38.7N, 32.5E, Central Anatolia, ML= 4.7 /Istanbul-K./, USCGS: H= 22 07 10.9, 38.8N, 32.6E, h= 39 km. Turkey, Mb= 4.8 SD 1.1 /CGS/.
- 6 eZ PKP 23 46 41 USCGS: H= 23 26 55.5, 14.9S, 175.2W, h= N, Samoa Islands region. Mb= 4.4 SD 1.1 /CGS/.
- 7 eZ PKP 00 18 38, traces. USCGS: H= 23 59 02.3, 14.9S, 175.2 W, h= 88 km. Samoa Islands region. Mb= 4.3 SD 1.2 /CGS/.
- 7 iZ Pg 17 29 05.2, iZ Sg 17 29 07.5, D= 20 km, local, weak.
- 7 eZ-P 19 32 38, eZ pP 19 34 34.6, eZ PP 19 36 35.2, D=10300 km. USCGS: H= 19 20 20.3, 26.3N, 140.6E, h= 516 km. Bonin Islands region, Felt strongly on Bonin Islands, M= 7.5 /PAS/ 6.3-6.7 /BRK/, Mb= 6.1 SD 1.0 /CGS/.
- 7 eZ+P 21 01 13.4, eZ PP 21 04 21, D= 9000 km. USCGS: H= 20 49 01.3, 42.ON, 142.4E, h= 32 km. Hokkaido, Japan region. Mb= 5.7, Ms= 6.1 SD 1.0 /CGS/.
- 8 Z P 08 02 /00/, USCGS: H= 07 43 23.1, 39.9S, 87.7E, h= N, Southeast Indian rise. M= 6 /PAS/, Mb= 6.0 Ms= 5.8 /CGS/.
- 9 eZ PKIKP 03 58 28, iZ PKP2 03 58 33.0, D= 15400 km, USCGS: H= 00 38 39.9, 14.7S, 175.5W, h= N, Samoa Islands region. M= 5.4-5.8 /BRK/, 6 /GOL/, Mb= 5.2 Ms= 5.6 SD 0.9 /CGS/.
- 9 eZ PKIKP 17 30 21, eZ PKP2 17 30 25, USCGS: H= 17 10 37.2 15.OS, 175.5W, h= N, Tonga Islands. Mb= 5.0 Ms= 5.3 SD 1.5 /CGS/.
- 10 eZ PKP 15 24 43, USCGS: H= 15 05 37.1, 6.OS, 148.6E, h=72 km. New Britain region, felt. Mb= 5.0, SD 1.3 /CGS/.
- 11 eZ Pg 12 58 28, iZ Sg 12 58 32, D= 30 km. Local, weak.
- 11 iZ Pg 19 11 45.2, iZ Sg 19 11 47.8, D= 20 km. Local, weak.
- 12 eZ-PKIKP 19 36 22, iZ PKHKP 19 36 30.0, iZ PKP2 19 36 48, eZ pPKP 19 38 50, D= 17000 km. USCGS: H= 19 17 39.9, 20.9S

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- /cont./ 178.8W, h= 607 km. Fiji Islands region. M= 5.9 /BRK/, Mb= 5.7 SD 1.0 /CGS/.
- 12 eZ+PKP 20 45 55, USCGS: H= 20 26 22.9, 17.2S, 175.0W, h= 17 km. Tonga Islands, Mb= 4.0 SD 1.1 /CGS/.
- 12 eZ+ P 23 27 57, USCGS: H= 23 20 19.3, 36.4N, 70.8E, h= 203 km. Hindu Kush region. Mb= 5.3 SD 1.1 /CGS/.
- 12 eZ P 23 32 59, USCGS: H= 23 21 32.3, 10.8N, 62.6W, h= 80 km. Near coast of Venezuela. Felt at Port of Spain, Trinidad. Mb= 4.9 SD 1.1 /CGS/.
- 13 eZ /Pn/ 17 56 49, eZ Sn 17 57 05, D= 140 km.
- 14 eZ PKP 03 17 42, eZ 03 17 46, eZ PP 03 19 33, USCGS: H= 02 58 47.8, 31.5S, 117.0E, h= 1 km. Western Australia. 28 injured and all buildings damage or destroyed at Meckering. Slight damage at Kalgoorlie, Perth, and York. Felt over a wide area of southwestern Australia. M= 7 1/4- 7 1/2 /PAS/ 6.5- 6.9 /BRK/, 7 1/4 /PAL/, 7- 7 1/4 /GOL/, Mb= 6.0 Ms= 6.8 SD 1.2 /CGS/.
- 14 eZ P 05 34 22, iZ! 05 34 25, USCGS: H= 05 22 44.3, 12.6N, 95.2E, h= N, Andaman Islands region. Mb= 5.5 SD 1.3 /CGS/.
- 14 eZ P 09 23 51, USCGS: H= 09 11 27.5, 38.2N, 142.1E, h= 69 km. Near east coast of Honshu, Japan. Mb= 5.0 SD 1.1 /CGS/.
- 14 eZ Pn 16 22 /45/, eZ /Sn/ 16 23 20.
- 14 eZ Pn 16 34 39, eZ Sn 16 35 16, D= 330 km. BCIS: H= 16 33 45 /DECM/, 47.4N, 11.5E, region of Innsbruck, Austria, Tyrol.
- 15 eZ+P 02 23 14.0, eZS 02 33 40, D= 9900 km. USCGS: H= 02 10 34.4, 0.5S, 100.6E, h= 98 km. Southern Sumatra. Mb= 5.6 SD 0.9 /CGS/.
- 15 eZ PKP1 17 59 44, eZ PKP2 18 00 17, USCGS: H= 17 30 16.4, 30.3S, 178.0W, h= 50 km. Kermadec Islands region. Mb= 4.2 SD 1.3 /CGS/.
- 15 eZ 19 20 09, eZ Sn 19 20 18, BCIS: H= 19 18 50 /DECM/, 47.3 N, 11.1E, /Wien-K./, Tyrol, Austria. Felt at Telfs /Tyrol/ /Wien-K./
- 16 eZ+P 07 58 21, USCGS: H= 07 45 46.8, 29.3N, 129.4E, h= 13 km Ryukyu Islands, Mb= 5.6 Ms= 5.4 SD 1.3 /CGS/.
- 17 eZ+Pn 23 58 12.7, eZ Sn 23 59 45.8, D= 900 km. BCIS: H= 23 56 02 /DECM/, 38.1N, 20.2E, Ionian Sea. ML= 4.2 /Athens/. USCGS: H= 23 56 05.5, 38.3N, 20.2E, h= 29 km. Greece. Mb= 4.5 SD 1.2 /CGS/.
- 18 eZ P 19 04 51, USCGS: H= 18 53 12.9, 12.3N, 95.1E, h= N,

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- /cont./ Andaman Islands region. Mb= 4.6 SD 1.2 /CGS/.
- 19 eZ P 02 41 30, USCGS: H= 02 33 30.9, 37.3N, 73.1E, h= 76 km. Tadzhik SSR, Mb= 4.9 SD 1.2 /CGS/.
- 19 eZ P 07 09 36, USCGS: H= 07 01 33.4, 37.3N, 73.2E, h= 51 km. Tadzhik SSR. Mb= 5.2 SD 1.1 /CGS/.
- 19 eZ P 10 00 08, eZ 10 00 12, USCGS: H= 09 52 03.4, 37.5N, 73.3E, h= N, Tadzhik SSR, Mb= 5.4 SD 1.4 /CGS/.
- 19 eZ Pn 15 37 52, eZ Sn 15 40 19, D= 1480 km. BCIS: H= 15 34 57, /DECM/, 35.3N, 23.6E, h= normal. Southwest of Crete. USCGS: H= 15 34 54.8, 35.3N, 23.5E, h=N, Crete. Mb= 4.8 SD 1.6 /CGS/.
- 19 eZ-Pn 22 50 34, iZ Sn 22 51 02.5, D= 260 km. BCIS: H= 22 49 55, 44 3/4N, 17 1/4E, Yugoslavia. Felt 4°- 5° at Banja Luka. /Ljubljana/.
- 20 eZ /P/ 23 17 06, BCIS: H= 23 15 04 /DECM/, 45.9N, 26.6E, h= 130 + 5 km. Rumania, Vrancea region. USCGS: H= 23 15 04.0, 45.7N, 26.6E, h= 123 km. Rumania, Mb= 4.6 SD 1.1 /CGS/.
- 21 eZ Pn 01 02 41, BCIS: H= 01 02 01 /DECM/, 46.9N, 17.6E, North of Balaton Lake. Hungary.
- 21 eZ Pn 18 19 44, eZ Sn 18 22 09, D= 1430 km. USCGS: H= 18 16 41.6, 35.2N, 23.4E, h= 5 km. Crete. Mb= 4.7 SD 1.1 /CGS/. BCIS: H= 18 16 40 /DECM/, 35.2N, 23.5E, Southwest of Crete ML= 4.3 /Athens/.
- 22 eZ 07 26 36, D= 360 km. BCIS: H= 07 23 18 /DECM/, 43.5N, 17.0E, Dalmatian coast, Yugoslavia.
- 23 eZ PKP 02 13 35, USCGS: H= 01 54 01.9, 53.5S, 140.3E, h=N, West of Macquarie Island, Mb= 4.7 SD 1.3 /CGS/.
- 23 iZ Pg 12 38 20.4, iZ Sg 12 38 23.0, D= 20 km.
- 23 eZ PKP 21 23 31, eZ PP 21 24 52, eZ SKS 21 30 34, D= 13100 km. USCGS: H= 21 04 41.3, 3.3S, 143.3E, h= 12 km, Near north coast of New Guinea. Heavy property damage at Dagua. Felt extensively in Sepik District. M= 6.8 /PAS/, 6.6-6.9 /BRK/, 7- 7 1/4 /PAL/, Mb= 6.1 Ms= 6.8 SD 1.2 /CGS/.
- 23 eZ P 21 33 08,
- 24 eZ-PKP 02 21 13, USCGS: H= 02 02 26.9, 3.5S, 143.6E, h= 40 km. Near north coast of New Guinea. Mb= 5.3 SD 0.9 /CGS/.
- 24 eZ P 04 27 57.5, USCGS: H= 04 15 16.4, 0.3N, 99.7E, h= N, Northern Sumatra, Mb= 5.1 SD 0.7 /CGS/.
- 24 eZ P 05 21 20, USCGS: H= 05 07 53.9, 45.6S, 34.1E, h= N,

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- /cont./ Prince Edward Islands region. Mb= 5.3 Ms= 5.5 SD 0.8 /CGS/.
- 24 eZ P 16 05 /00/, eZ PP 16 09 06, eZ SKS 16 16 /00/, D=11200 km. USCGS: H= 15 51 18.5, 5.9N, 127.0E, h= 70 km. Philippine Islands region. M= 6.6 /PAS/, Mb= 5.4 SD 1.3 /CGS/.
- 24 eZ P 22 47 53, USCGS: H= 22 35 50.9, 49.7N, 155.8E, h= 35 km. Kurile Islands, Mb= 5.5 SD 1.0 /CGS/.
- 25 eZ PKP 10 32 27, USCGS: H= 10 13 32.5, 19.8S, 179.6E, h= 532 km. South of Fiji Islands. Mb= 4.2 SD 0.8 /CGS/.
- 25 eZ P 10 41 36, USCGS: H= 10 29 24.1, 4.3N, 95.5E, h= 33km. Northern Sumatra, Mb= 5.5 SD 0.9 /CGS/.
- 28 eZ-Pn 12 57 09, eZ 12 59 32, BCIS: H= 12 54 29 /DECM/, 38.9 N, 26.0E, Aegean Sea. Near Island Lesbos. ML= 4.6 /Athens/. USCGS: H= 12 54 32.8, 39.0N, 25.9E, h= N, Aegean Sea. Mb= 4.5 SD 1.1 /CGS/.
- 28 eZ P 14 53 22.5, USCGS: H= 14 40 41.4, 33.4N, 140.8E, h= 61 km. South of Honshu, Japan. Mb= 5.5 SD 0.9 /CGS/.
- 28 eZ P 17 58 24, USCGS: H= 17 48 29.1, 27.3N, 86.1E, h= 37km. Nepal, Mb= 4.8 SD 0.8 /CGS/.
- 28 eZ+PKHKP 23 51 42, iZ! PKIKP 23 51 51.0, eZ PP 23 54 44, D= 15400 km. USCGS: H= 23 32 28.7, 12.5S, 166.5E, h= 60 km. Santa Cruz Islands. M= 6.5 /PAS/, 6.4-6.6 /BRK/, 7.0 /GOL/, Mb= 5.9 SD 1.0 /CGS/.
- 29 eZ Pn 02 58 /05/, eZ Sn 02 58 40, /D= 310 km./,
- 29 eZ PKP 03 22 12, traces. 03 03 15.1, 20.2S, 178.0W, h= 520 km. Fiji Islands region. Mb= 4.5 SD 0.6 /CGS/.
- 29 eZ P 04 19 /00/, USCGS: H= 04 06 04.1, 31.2N, 141.6E, h= 17 km. South of Honshu, Japan. Mb= 5.7 SD 0.9 /CGS/.
- 29 eZ P 06 39 45, USCGS: H= 06 26 52.0, 31.2N, 141.7E, h= 40 km. South of Honshu, Japan. Mb= 5.1 SD 0.9 /CGS/.
- 29 eZ P 06 58 09, USCGS: H= 06 45 15.4, 31.2N, 141.7E, h= N, South of Honshu, Japan. Mb= 5.1 SD 0.9 /CGS/.
- 29 eZ PKIKP 07 39 59, iZ! PKHKP 07 40 04.0, eZ pPKP 07 42 17, USCGS: H= 07 21 16.7, 17.8S, 178.8W, h= 567 km. Fiji Islands region. Mb= 5.5 SD 0.9 /CGS/.
- 29 eZ PKP 11 46 45, eZ 11 46 52, USCGS: H= 11 26 51.8, 22.5S, 175.2W, h= N, Tonga Islands region. Mb= 5.1 SD 0.8 /CGS/.
- 29 eZ PKP 11 59 13, USCGS: H= 11 39 20.2, 22.6S, 174.9W, h=N, Tonga Islands region. Mb= 5.2 SD 0.9 /CGS/.

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- 29 eZ P 22 27 17, iZ! 22 27 21.0, USCGS: H= 22 16 15.6, 65.4N, 150.1W, h= 7 km. Alaska. Felt strongly in central Alaska. M= 6.8 /PAS/, 6.3-6.5 /BRK/, 7.0 /GOL/, 7.1 ML /CGS/, Mb= 6.0 Ms= 6.5 SD 1.0 /CGS/.
- 30 eZ P 04 15 28, USCGS: H= 04 07 20.7, 37.4N, 73.2E, h= 12 km. Tadzhik SSR, Mb= 5.5 SD 0.7 /CGS/.
- 30 eZ PKIKP 10 01 31, eZ PKP2 10 02 17.5, USCGS: H= 09 42 10.3, 31.0S, 179.9W, h= 328 km. Kermadec Islands, Mb= 4.9 SD 1.2 /CGS/.
- 30 Z 10 19 /00/, eZ 10 20 10, traces.
- 30 eZ P 11 45 59, BCIS: H= 11 41 54 /DECM/, 35.1N, 3.4W, Maroc, Near the coast of Alboran Sea. Felt 4⁰ at Al Hoceima /Rabat/, USCGS: H= 11 41 56.9, 35.1N, 3.6W, h= 34 km. Straits of Gibraltar. Mb= 4.6 SD 1.2 /CGS/.
- 30 eZ P 16 56 05, BCIS: H= 16 51 37 /DECM/, 38.0N, 38.6E, Taurus /Turkey/, MLH= 5.1 /Collm/, 4.6 /Pruhonice/, USCGS: H= 16 51 33.5, 37.9N, 38.6E Turkey, h= 3 km. Mb= 4.9 SD 1.1 /CGS/.
- 30 eZ Pn 18 01 14, eZ Sn 18 02 /52/, , D= 650 km.
- 30 eZ P 18 26 42,
- 31 iZ Pn 03 25 24.5, eZ Sn 03 27 50, D= 1430 km. BCIS: H= 03 22 17, /DECM/, 36.6N, 27.1E, depth normal. Dodecanese Islands, Island Kos. M= 5.6 /Athens/, 5.5 /Roma/, MLH= 5.3 /Collm/, 4.8 /Pruhonice/. USCGS: H= 03 22 15.0, 36.6N, 27.1E, h= 11 km. Dodecanese Islands. Mb= 5.1 SD 0.8 /CGS/.
- 31 Z Pn 07 03 /00/, eZ Sn 07 04 37, /D= 940 km./, Athens: H= 07 00 45, 37.9N, 20.3E.
- 31 eZ P 09 20 28.5, eIZ PKP 09 24 56, eZ SKS 09 31 34, eZ S 09 32 25, D= 11900 km. USCGS: H= 09 06 36.4, 1.2N, 126.3E, h= N, Molucca Passage, Mb= 6.1 Ms= 6.0 SD 1.0 /CGS/.
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- NOVEMBER 1968
- 1 iZ P 00 30 58.6, USCGS: H= 00 21 42.8, 0.9S, 13.4W, h= N, North of Ascension Island. Mb= 5.1 SD 0.7 /CGS/.
- 1 eZ PKIKP 01 52 24, eZ PKP 01 53 23, USCGS: H= 01 32 23.3, 41.6S, 175.0E, h= 29 km. North Island, New Zealand, Mb= 5.5 SD 1.3 /CGS/.
- 2 eZ P or PKP 03 38 27,
- 2 eZ 04 43 32, eZ /Sn/ 04 44 31, traces.

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- 2 iZ /Pn/ 05 49 54.8, eZ /Sn/ 05 50 49,
- 3 iZNE-Pn 04 50 51.7, iZNE Sn 04 51 48.6, D= 550 km. BCIS: H= 04 49 33, 42.ON, 19.3E, South of Montenegro, Yugoslavia. MLH= 5.8 /Collm/, 5.7 /Moxa/, one dead, 5 injured at Pistuli near Ulcinj /Press/. M= 5.5 /Pruhonice/, ML= 5.4 /Athens/, 5.2 /Beograd/.
- 3 eZNE Pn 05 17 30.8, iZNEsn 05 18 27, Z Sg 05 19 /00/, D= 550 km. Montenegro, aftershock.
- 3 eZ 05 40 48, eZ Sn 05 40 38,
- 3 eZ Pn 09 51 52, eZ/Sn/ 09 52 51, /D= 550 km./,
- 3 eZ Pn 13 33 18, eZ /Sn/ 13 34 16, /D= 550 km./,
- 3 eZ P 18 43 09, BCIS: H= 18 40 01/DECM/, 38.8N, 28.7E, West. Anatolia. Felt in western Anatolia and on the region of Marmara Sea./Istanbul-K./, Strongly felt at Simav /39.1N, 29.0E/ /Çinê/.
- 3 eZ Pn 19 17 28, eZ 19 18 37,
- 4 eZ P 09 11 22, USCGS: H= 09 02 31.8, 12.2N, 58.0E, h= N, Mb= 5.1 SD 1.3 /CGS/.
- 4 eiZ-P 09 26 04, USCGS: H= 09 07 38.5, 14.2S, 172.0E, h= 585 km. New Hebrides Islands region. M= 6 1/2 /PAS/, 6 1/4 /BRK/, Mb= 5.8 SD 0.9 /CGS/.
- 4 eZ Pn 15 22 07, Z 15 23 /00/,
- 4 eZ 20 08 55, eZ 20 09 20, traces. BCIS: H= 20 05 58 /DECM/, 36.ON, 27.0E, Dodecanese, ML= 4.6 /Athens/.
- 5 eZ Pn 00 48 41, eZ Sn 00 50 16, D= 910 km, Athens: H= 00 46 23, 37.8N, 20.3E, ML= 3.8,
- 5 eZ P 02 11 30, USCGS: H= 02 02 44.2, 32.4N, 76.4E, h= N, Kashmir-India border region, Mb= 4.9 SD 1.3 /CGS/.
- 5 eiZ+Pn 05 21 39.2, iZ Sn 05 22 40.8, D= 560 km.
- 6 iZ Pg 13 32 /54.5/, iZ Sg 13 32 57.9, /D= 30 km/.
- 6 eZ P 13 45 08, BCIS: H= 13 41 06 /DECM/, 35.2N, 32.9E, h= 70 km. Northern coast of Cyprus.
- 7 eZ PKP 03 52 39, USCGS: H= 03 32 50.8, 16.6S, 172.7W, h=N, Samoa Islands region, Mb= 5.1 Ms= 5.5 SD 1.1 /CGS/.
- 7 eZ P 05 20 28,
- 7 eZ P 09 31 23, USCGS: H= 09 19 07.3, 40.2N, 142.3E, h= 61

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- /cont./ km. Near east coast of Honshu, Japan. Mb= 4.9 SD 08 /CGS/.
- 7 iZ+P 10 08 43.1, Z PP 10 10 /00/, iZ 10 11 37.0, eZ S 10 14 07, D= 3660 km. BCIS: H= 10 02 07, 73.5N, 55.0E, Novaya Zemlya, probably artificial, MPV= 6.5 /Pruhonice/, m=6.3 /Uppsala/, MLH= 5.3 /Pruhonice/, USCGS: H= 10 02 05.3, 73.4N, 54.9E, h=0 km. G. Novaya Zemlya, M= 6 1/4 - 6.5 /BRK/, Mb= 6.0 SD 1.0 /CGS/.
- 8 eZ PKHKP 08 01 57, eZ PKIKP 08 02 04, USCGS: H= 07 42 57.3, 13.3S, 167.2E, h= 192 km. New Hebrides Islands, Mb= 5.1 SD 0.8 /CGS/.
- 8 eZ PKP 18 46 07, USCGS: H= 18 27 26.7, 19.5S, 179.2W, h= 670 km. Fiji Islands region. Mb= 5.2 SD 1.0 /CGS/.
- 9 iZ P 17 12 59.8, USCGS: H= 17 01 41.1, 37.96N, 88.46W, h= 19 km. Southern Illinois. Several injured and minor damage in widely scattered areas. Felt in 23 states and Ontario, Canada. Maximum Intensity 7. Epicenter based on regional crustal model and Pn velocity of 8.24 km./sec. to distance of 810 km. Depth based on observed depth Phases. M= 5- 5 1/2 /PAL/, 6.0 /GOL/, Mb= 5.3 /CGS/.
- 10 eZ P 17 14 44, iZpP 17 14 55.9, USCGS: H= 17 01 59.2, 20.0 N, 121.4E, h= N, Philippine Islands region. Felt at Basco. Mb= 5.2 Ms= 5.5 SD 1.1 /CGS/.
- 10 iZ P 21 37 54, iZ pP 21 38 14, USCGS: H= 21 24 51.7, 3.6S, 102.0E, h= N, Southern Sumatra. Mb= 5.3 SD 1.0 /CGS/.
- 10 Z 23 50 /00/, eZ /Sn/ 23 50 44, weak.
- 11 iZ+P 09 05 37.7, USCGS: H= 08 53 52.0, 57.3N, 155.3W, h= 59 km. Alaskan Peninsula. Mb= 5.3 SD 0.9 /CGS/.
- 11 iZ Pg 09 46 03.2, iZ Sg 09 46 08.4, D= 45 km.
- 11 iZ+ P 14 53 37.4, eZ PP 14 55 53, D= 9100 km. USCGS: H= 14 41 15.9, 40.1N, 143.0E, h= 35 km. Off east coast of Honshu, Japan, Mb= 5.5 Ms= 5.9 SD 1.0 /CGS/.
- 11 eZ Pn 23 37 30, eZ Sn 23 39 39, D= 1290 km. BCIS: H= 23 34 21 /DECM/, 36.8N, 27.0E, Dodecanese Islands. Island Kos, M= 5 /Roma/, 4.9 /Athens/, 4.9 /Collm/, 4.4 /Pruhonice/, USCGS: H= 23 34 21.0, 36.7N, 27.1E, h= 23 km. Dodecanese Islands. Felt on Kos, Nisiroi and Rhodes. Mb= 4.8 SD 1.6 /CGS/.
- 12 ei+P 00 56 47, USCGS: H= 00 44 12.8, 27.5N, 128.4E, h= 48km, Ryukyu Islands. Mb= 5.8 Ms= 5.6 SD 1.2 /CGS/.
- 12 eZ Pn 03 40 45, BCIS: H= 03 37 37 /DECM/, 36.8N, 27.1E, Dodecanese Islands. Island Kos. M= 5.0 /Athens/, 4.9 /Roma/, 4.8 /Collm/, 4.4 /Pruhonice/, USCGS: H= 03 37 37.5, 36.6N,

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- /cont./ 27.3E, h= 24 km. Dodecanese Islands, felt on Kos., Nisiros and Rhodes. Mb= 4.7 SD 1.3 /CGS/.
- 12 eZ 04 10 00, traces.
- 12 eZ 06 12 05, traces, BCIS: H= 06 08 49 /DECM/, 36.5N, 27.6 E, Dodecanese, M= 4.8 /Collm,Roma/, 4.4 /Pruhonice/. USCGS: H= 06 08 54.3, 36.6N, 27.3E, h= 24 km. Dodecanese. Felt on Islands Kos, Nisiros, and Rhodes. Mb= 4.7 SD 1.6 /CGS/.
- 12 eZ P 09 09 49, traces. USCGS: H= 08 57 27.1, 41.2N, 143.9 E, h= 17 km. Hokkaido, Japan region. Mb= 5.3 SD 1.1 /CGS/.
- 12 eZ P 10 06 15, USCGS: H= 09 53 42.2, 29.2N, 129.4E, h= 22 km. Ryukyu Islands. Mb= 5.4 Ms= 5.1 SD 1.2 /CGS/.
- 12 eZ PKP 22 20 22, weak, USCGS: H= 22 00 39.1, 15.6S, 172.8W, h= 47 km. Samoa Islands region. Mb= 5.2 SD 1.6 /CGS/.
- 13 eZ- PKP 16 08 17, USCGS: H= 15 49 26.4, 20.8S, 178.8W, h= 590 km. Fiji Islands region. Mb= 5.2 SD 0.9 /CGS/.
- 13 eZ 17 36 13, eZ /Sn/ 17 36 50, traces.
- 13 eZ+P 18 54 06, USCGS: H= 18 41 47.9, 40.2N, 142.5E, h= 49 km. Near east coast of Honshu, Japan, Mb= 5.5 Ms= 5.8 SD 1.0 /CGS/.
- 13 eZ PKP 21 54 37, USCGS: H= 21 35 47.9, 18.4S, 178.0W, h= 549, km. Fiji Islands region. Mb= 4.9 SD 1.0 /CGS/.
- 14 eZ PKP 11 54 44, eZ pPKP 1155 40, USCGS: H= 11 35 12.0, 20.0S, 176.0W, h= 220 km. Fiji Islands region. Mb= 5.1 SD 0.9 /CGS/.
- 14 eZ Pn 23 16 39, iZ Sn 23 17 39.1, iZ Sg 23 18 11.9, D= 560 km. Athens: H= 23 15 18, 41.9N, 19.1E, M= 3.8 /Beograd/.
- 14 iZ PKP 23 28 30.8, USCGS: H= 23 08 54.4, 21.5S, 170.1E, h= 103 km. Loyalty Islands region. Mb= 5.4 SD 1.0 /CGS/.
- 15 Z 02 23 /00/, eZ /Sn/ 02 23 18, traces.
- 15 eZ P 06 32 21, BCIS: H= 06 25 36 /DECM/, 37.5N, 58.2E, Iran-URSS border region, east of Caspian Sea. MLH= 5.7 /Collm/, M= 5 1/2 /Uppsala/.
- 15 eZ /Pn/ 11 57 38, eZ 11 58 44, eZ Sn 11 59 15,
- 16 Z PKP 00 43 /00/, USCGS: H= 00 23 40.7, 18.0S, 168.5E, h= 173 km. New Hebrides Islands, Mb= 5.3 SD 1.0 /CGS/.
- 16 eZ Pn 00 46 22, eZ 00 47 15,
- 16 iZ Pg 05 00 28.8, iZ Sg 05 00 30.1, traces, local.
- 16 iZ+PKP 08 05 28.2, USCGS: H= 07 45 51.7, 16.6S, 175.9E,

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- /cont./ h= 66 km. Fiji Islands region. M= 6-6 1/4 /PAS/, 6.3- 6.5 /BRK/, 6- 6 1/4 /GOL/, Mb= 5.6 SD 1.0 /CGS/.
- 16 iZ Pn 09 13 18.5, iZ 09 14 08.0,
- 17 iZ P 00 28 08.0, iZ pP 00 28 48.4, USCGS: H= 00 16 08.6, 9.6 N, 72.6W, h= 172 km. Venezuela, slight damage at Maracaibo. Felt at Caracas and San Cristbal. M= 6 1/2 - 6 3/4 /PAS/, Mb= 5.7 SD 1.3 /CGS/.
- 17 eZ P 07 50 32, eZ PP 07 52 29, D= 5800 km. USCGS: H= 07 41 16.1, 1.3S, 13.6W, h=N, North of Ascension Island. M= 6 1/2 /GOL/, Mb= 5.3 Ms= 5.8 SD 1.4 /CGS/.
- 17 iZ Pg 11 04 40.0, iZ Sg 11 04 50.8, D= 93 km.
- 18 iZ Pn 14 53 47.6, iZ Sn 14 54 49.2, eZ Sg 14 55 19, D= 580 km. Athens: 14 52 26, 42.ON, 19.1E.
- 21 eZ PKP 02 56 20, USCGS: H= 02 36 21.8, 20.9S, 174.1W, h=N, Tonga Islands, Mb= 5.0 SD 0.8 /CGS/.
- 21 Z P 03 13 /00/, USCGS: H= 03 04 39.0, 36.4N, 70.6E, h= 204 km. Hindu-Kush region. Felt at Dushanbe, Tadzhik SSR.
- 21 eZ Pn 22 51 /42/, eZ Sn 22 52 30, eZ 22 52 55, BCIS: H= 22 50 03 /DECM/, 46.3N, 6.8E, Haut Savoia /France/. Felt at Abondance.
- 22 eZ P 09 12 24, USCGS: H= 08 59 23.1, 16.3N, 122.3E, h= 26km Luzon, Philippine Islands, felt throughout Luzon. Mb= 5.3 Ms= 5.8 SD 1.0 /CGS/.
- 22 Z Pn 10 09 /00/, eZ Sg 10 09 47, D= 320 km. BCIS: H= 10 08 20 /DECM/, 47.5N, 11.0E, Bavarian Alps, Germany-Austria borde-region.
- 24 eZ PKP 21 29 32, USCGS: H= 21 09 47.9, 15.6S, 176.0W, h= N, Fiji Islands region. Mb= 5.3 SD 1.2 /CGS/.
- 24 iZ+P 21 33 16.8, USCGS: H= 21 20 59.9, 40.3N, 142.3E, h=51, Near east coast of Honshu, Japan, Mb= 5.9 /CGS/.
- 25 eZ P 18 50 48, Z /PP/ 18 54 /00/, USCGS: H= 18 36 53.0, 5.ON, 126.9E, h= 31 km. Mindanao, Philippine Islands. Mb=5.4 Ms= 6.2 SD 1.1 /CGS/.
- 26 eZ PKP 01 29 07, USCGS: H= 01 10 12.9, 5.3S, 152.0E, h= 68 km. New Britain region. Felt at Rabaul. Mb= 5.5 SD 1.0 /CGS/.
- 26 iZ Pn 15 36 46.8, eZ /Sn/ 15 38 08, /D= 780 km./,
- 26 eZ P 18 41 39, USCGS: H= 18 31 51.8, 55.9N, 111.4E, h= 4 km Lake Baikal region. Mb= 5.1 SD 0.9 /CGS/.
- 27 eZ 01 20 30, eZ Sn 01 21 50, traces.

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- 28 eZ P 10 49 07, USCGS: H= 10 36 07.7, 15.4N, 94.6W, h=33 km. Near coast of Oaxaca, Mexico. M= 6.1 /PAS/, Mb= 5.2 Ms= 6.4 SD 1.0 /CGS/.
- 28 eZ PKP 16 49 21.3, Z pPKP 16 50 /00/, USCGS: H= 16 30 32.1 6.3, 156.2E, h= 169 km. Solomon Islands. Felt at Mali. Mb = 5.7 SD 0.9 /CGS/.
- 29 eZ 19 54 16, eZ Sn 19 54 30, traces.

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- 1 eZ P 12 28 16
- 2 eZ Pn 00 57 20, iZ 00 57 24.2.
- 3 iZ Pg 01 58 /46/, iZ Sg 01 58 52.1, D= 60 km.
- 3 eZ Pg 13 59 50, iZ /Sg/ 13 59 55,
- 3 iZ Pn 20 58 23.6, iZ Pg 20 58 33.9, iZ Sn 20 59 03.2, iZ Sg 20 59 16.3, D= 350 km. BCIS: H= 20 57⁰³³ /DECM/, 44.4N, 18.5E, Bosnia, Yugoslavia. Epicenter: 44°40'N, 18°22'E, /Beograd/, Tuzla region, 35 injured. Felt at Sarajevo and in northeastern Bosnia/Press/. M= 5.0 /Beograd/, ML=4.5 /Collm/, 4.4/Pruhonice/, 4.3 /Moxa/, USCGS: H= 20 57 31.2 44.6N, 18.4E, h= 7 km. Yugoslavia. At least 35 injured at Tuzla. Mb= 4.7 SD 0.9 /CGS/.
- 4 eZ Pn 18 55 38, weak. BCIS: H= 18 52 19 /DECM/, 36.4N, 26.9 E, Sea of Crete. USCGS: H= 18 52 17.6, 36.5N, 27.1E, L= 42 km. Dodecanese Islands. Mb= 3.9 SD 1.5 /CGS/.
- 4 eZPn 19 40 /28/, eZ 19 40 40, weak. BCIS: H= 19 37 23 /D ECM/, 36.5N, 27.0E, Aegean Sea. MPV= 5.1, MLV= 4.7, MLH= 4.6 /Moxa/, USCGS: H= 19 37 23.5, 36.5N, 27.1E, Aegean Sea. MPV= 5.1, MLH= 4.6, MLV= 4.7 /Moxa/, h= 51 km. Dodecanese Islands, Mb= 4.7 SD 1.0 /CGS/.
- 4 eZ P 21 50 50, USCGS: H= 21 41 32.6, 8.4N, 58.4E, h= N, Carlsberg ridge. Mb= 5.1 SD 0.8/CGS/.
- 5 eZ P 07 55 18, iZ! 07 55 20.6, BCIS: H= 07 52 09 /DECM/, 36.6N, 26.9E, depth normal, Aegean Sea, Island Kos region. M= 6.2 /Athens/, 5.9/Uppsala/, MPH= MSH= 5.9 /Collm/, MPH= 5.8 /Pruhonice/, MLV= 5.8 /Moxa/, MLH= 5.7 /Praha/, 5.6 /Moxa, Strasbourg/, 5.5 /Collm/, 5.4 /Pruhonice/, USCGS: H= 07 52 11.0, 36.6N, 27.0E, h= 35 km. Dodecanese Islands. Felt. Mb= 5.5 SD 1.0 /CGS/.
- 5 eZ P 09 13 36, USCGS: H= 09 01 26.4, 5.1N, 95.8E, h= N, Northern Sumatra, Mb= 4.8 SD 0.9 /CGS/.
- 5 eZ P 09 49 54, BCIS: H= 09 44 09 /DECM/, 63.9N, 22.0W,

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- /cont./ Iceland, 35 km SSW of Reykjavik. Felt 6° MCS at Hafnarfjordur, 5⁰-6⁰ at Reykjavik /Smithsonian Institution/ MPV= MPH= 6.5 /Praha/, MSH= 6.4 /Praha/, 6.3 /Moxa/, MPH= 6.3 /Pruhonice/, MLV= 6.2/Moxa/, M= 6.1 /Uppsala/, MLH= 6.1 /Praha/, 6.0 /Collm/, MLG= 6.0 /Moxa/, MLH= 5.8 /Pruhonice/ USCGS: H= 09 44 11.0, 63.9N, 21.7W, h= 56 km. Iceland region. Felt at Hafnarfjordur and Reykjavik. M= 5.9 /PAS/, 6 1/4 /BRK/, 6.0 /GOL/, Mb= 5.5 Ms= 6.0 SD 1.1 /CGS/.
- 5 Z Pn 22 34 /00/, iZ Sn 22 34 33.2, D= 270 km. BCIS: H= 22 33 15 /DECM/, 44.7N, 17.4E, Bosnia, Yugoslavia. Banja Luka region.
- 5 eZ 23 11 56, eZ 23 12 12, traces.
- 6 iZ Pg 09 31 58.8, iZ Sg 09 32 01.1 D= 20 km, local, weak.
- 6 eZ 15 45 18, eZ /Sn/ 15 45 59, weak.
- 6 Z P 22 19 00, USCGS: H= 21 59 07.9, 16.9S, 172.5W, h= N, Samoa Islands region. Mb= 4.5 SD 1.1 /CGS/.
- 7 eZ PKP 05 16 42, eZ PP 05 18 11, eZ PKS 05 20 23, eZ SKS 05 23 26, D= 13300 km. USCGS: H= 04 57 49.0, 3.4S, 145.9E, h= 15 km, Near north coast of New Guinea. M= 6.2 /PAS/, 6 3/4 /BRK/, Mb= 5.3 Ms= 6.5 SD 1.6 /CGS/.
- 7 eZ P 15 53 13, USCGS: H= 15 40 57.9, 51.6N, 175.7E, h=N, Rat Islands, Aleutian Islands. Mb= 5.3 Ms= 5.4 SD 1.5/CGS/
- 7 eZ P 15 58 57, USCGS: H= 15 46 45.2, 51.6N, 175.8E, h= 59 km. Rat Islands, Aleutian Islands. Mb= 5.0 SD 1.0 /CGS/.
- 7 eZ P 16 05 /32/, USCGS: H= 15 53 05.5, 51.5N, 175.6E, h=N, Rat Islands, Aleutian Islands. Mb= 4.7 SD 1.4 /CGS/.
- 7 eZ PKP 17 29 /12/, USCGS: H= 17 09 52.5, 14.0S, 166.8E, h= 56 km. New Hebrides Islands. Mb= 5.1 SD 1.0 /CGS/.
- 7 eZ P 17 32 53,
- 7 eZ 20 54 15, eZ PP 20 55 48, USCGS: H= 20 35 21.2, 45.0S, 80.3W, h=N, Off coast of southern Chile. Mb= 5.6 SD 1.2 /CGS/.
- 7 eZ PKHP 21 55 20, iZ PKIKP 21 55 23.0, iZ pPKP 21 55 40.0 USCGS: H= 21 35 44.8, 20.7S, 169.4E, h= 61 km. D, New Hebrides Islands. M= 6 /PAS/, 6 /BRK/, Mb= 5.6 SD 1.1 /CGS/.
- 8 eZ+P 09 21 08, USCGS: H= 09 08 34.5, 27.4N, 128.3E, h= 54 km. Ryukyu Islands. Mb= 5.1 SD 1.0 /CGS/.
- X 9 iZ Pg 05 13 03, iZ Sg 05 13 11.2, D= 60 km. BCIS: H= 05 12 56, /DECM/, 45.7N, 14.1E, Slovenia, Yugoslavia. Felt 3⁰-4⁰ at Ilirska Bistrica /Ljubljana/, 2⁰ at Trieste /Trieste/.

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- 10 eZ Pn 11 30 41, eZ Sn 11 32 16, D= 930 km. BCIS: H= 11 28 35, /DECM/, 38.7N, 21.5E, Greece, Ms= 4.6 /Athens/, USCGS: H= 11 28 37.5, 38.9N, 21.6E, h= 65 km. Greece, Mb= 4.6 SD 1.1 /CGS/.
- 11 iZ P 11 57 58.3, USCGS: H= 11 45 30.8, 33.6N, 134.0E, h=32 km. D, Shikoku, Japan. Mb= 5.4 SD 0.8 /CGS/-
- 12 eZ PKIKP 07 38 41, iZ PKHKP 07 38 44.3, eZ PKP2 07 38 56, D= 16900 km. USCGS: H= 07 19 44.8, 16.0S, 177.8W, h= 431 km. Fiji Islands region. Mb= 5.5 SD 1.5 /CGS/.
- 14 eZN, Pn 17 45 53.6, iZN Sn 17 46 31.5, iZN Sg 17 46 43.4, D= 200 km. BCIS: H= 17 45 08, cca 43 1/2N, 12.0E, Central Italy.
- 15 eZ+P 02 26 33, USCGS: H= 02 14 17.5, 51.6N, 175.8E, h= n, Rat Islands, Aleutian Islands, M= 6 1/4-6 1/2 /PAS/, 5 3/4 /BRK/, Mb= 5.7 Ms= 6.2 SD 1.1 /CGS/.
- 15 eZ P 02 40 47, USCGS: H= 02 28 32.4, 51.7N, 17.5E, h=N, Rat Islands, Aleutian Islands, Mb= 6.1 SD 1.2 /CGS/.
- 16 iZ-P 11 06 18.5, USCGS: H= 10 46 46.6, 18.0S, 168.1E, h=49 km. New Hebrides Islands, Mb= 5.1 Ms= 5.4 SD 0.9 /CGS/.
- 17 iZ P 12 13 41.0, iZ 12 14 17.5, USCGS: H= 12 02 15.0, 60.2 N, 152.8W, h= 86 km. Southern Alaska. Felt in south central area. M= 6 1/2 /PAS/, 6 1/2 /BRK/, Mb= 5.9 SD 1.2 /CGS/.
- 18 eZ PKP 20 22 51, USCGS: H= 20 03 43.9, 19.9S, 177.6W, h= 367 km. Fiji Islands region. Mb= 5.5 SD 1.0 /CGS/.
- 18 eZ P 21 06 05, USCGS: H= 20 56 48.3, 8.4N, 58.4E, h= N, Carlsberg ridge. Mb= 4.8 SD 1.2 /CGS/.
- 19 iZ+P 05 25 32.1, USCGS: H= 05 17 51.6, 36.1N, 70.1E, h= 151 km. HinduKush region. Mb= 5.4 SD 1.0 /CGS/.
- 19 iZ P 15 27 45.5, USCGS: H= 15 15 55.7, 53.3N, 160.1E, h=N, Near east coast of Kamchatka, Mb= 5.4 Ms= 5.6 SD 1.0 /CGS/.
- 19 eZ P 16 42 42, eZ 16 43 03, eZ PP 16 46 00, D= 9550 km. US CGS: H= 16 30 00.0, 37.2N, 116.5W, h= 0 km. Southern Nevada. 37°13'53.3"N, 116°28'24.9"W, Nevada test Site "Benham" shot elevation 512.1 meters /AEC/, h=0 km. Mb= 6.3 Ms= 5.6 /CGS/.
- 21 eZ P 00 39 36, BCIS: H= 00 36 36 /DECM/, 36.5N, 27.0E, Dodecanese, ML= 4.8 /Athens/. USCGS: H= 00 36 37.3, 36.6N, 27.1E, h= 17, km. Dodecanese Islands. Mb= 4.6 SD 1.2 /CGS/.
- 22 eZ P 09 17 04, USCGS: H= 09 06 36.3, 36.2N, 101.9E, h= N, Tsinghai Province, China. Mb= 5.5 SD 1.0 /CGS/.
- 22 eZ P 16 56 38, USCGS: H= 16 44 44.2, 56.3N, 153.8W, h=N,

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- /cont./ Kodiak Island region. M= 5.1 /BRK/, Mb= 5.3 SD 1.0 /CGS/.
- 23 eZ Pn 11 36 16, eZ Sn 11 37 31, D= 720 km. BCIS: H= 11 34 40 /DECM/, 39.8N, 17.0E, Gulf of Taranto /Italy/, USCGS: H= 11 34 38.5, 39.7N, 16.8E, h= N, Southern Italy, Mb= 4.1 SD 1.1 /CGS/.
- 23 eZ P 16 09 57,
- 24 eZ P 13 12 23, USCGS: H= 12 59 39.0, 18.1N, 120.1E, h= 53km. Luzon, Philippine Islands, felt at Ladag City. Mb= 5.1 SD 1.1 /CGS/.
- 25 eZ P 04 08 52, USCGS: H= 03 56 39.2, 41.7N, 142.8E, h= 36 km. Hokkaido, Japan region. Felt on Hokkaido, Mb= 5.3 Ms= 4.8 SD 1.0 /CGS/.
- 25 eZ P 12 20 24, eZ S 12 22 49, D= 1460 km. BCIS: H= 12 17 19 /DECM/, 34.9N, 24.4E, h= 80 km. South of Crete. USCGS: H= 12 17 20.8, 35.1N, 24.3E, h= 68 km. Crete. Mb= 5.0 SD 1.0 /CGS/.
- 27 eZ P 14 48 47, eZ 14 48 56, USCGS: H= 14 38 11.6, 24.1N, 91.6E, h= 26 km. India-east Pakistan border region. Felt at Shillong, India. Mb= 5.2 SD 0.8 /CGS/.
- 29 iZ Pn 03 21 34.6, iZ Sn 03 22 08.0, D= 290 km.
- 29 eZ P 18 06 58, eZ pP 18 07 12, USCGS: H= 17 54 15.3, 0.5S, 99.2E, h=N, Southern Sumatra, M= 4.6 SD 0.6 /CGS/.
- 29 eZ PKP 20 22 13, USCGS: H= 20 03 19.4, 20.2S, 177.9W, h= 550 km. Fiji Islands region. Mb= 4.5 SD 0.8 /CGS/.
- 30 eZ PKIKP 05 08 29, eZ PKHKP 05 08 32.5, eZ PKP2 05 08 40.5, USCGS: H= 04 48 40.9, 16.3S, 172.6W, h= N, Sanca Islands region, Mb= 5.2 SD 1.1 /CGS/.
- 30 eZ P 07 14 /55/, USCGS: H= 07 03 11.7, 57.6N, 151.4W, h= 34 km. Kodiak Island region. Felt in the Palmer-Anchorage area Mb= 5.4 SD 0.9 /CGS/.
- 30 eZ P 10 33 /23/, BCIS: H= 10 27 06 /DECM/, 76.9N, 11E, North Atlantic ridge, west of Svalbard, MDH= 5.5 MLH= 4.9/Collm/, 4.7/Pruhonic/, USCGS: H= 10 27 09.7, 76.2N, 7.5E, h= 23km. D, Svalbard region, M= 5 1/2 - 5 3/4 /GOL/, Mb= 5.0 Ms= 5.5 SD 1.0 /CGS/.
- 31 eZ Pn 06 00 40, iZ 06 01 22.2, eZ /Sn/ 06 01 37,
- 31 eZ Pn 12 05 33, eZ /Sn/ 12 06 17, D= 410 km.
- 31 iZ+Pn 17 05 33.6, iZ Sn 17 05 46, D= 100 km.
- Ljubljana, August 21, 1970 Interpretation: M. Hržič
Redaction: V. Ribarič